ORDER NO. BSD0105M009S
D20

Service Manual

DVCPRO

Sec. 1 Service Information
Sec. 2 Disassembly Procedures
Sec. 3 Electrical Adjustment
Sec. 4 Block Diagrams
Sec. 5 Schematic Diagrams
Sec. 6 Circuit Board Diagrams
Sec. 7 Exploded Views & Replacement Parts List

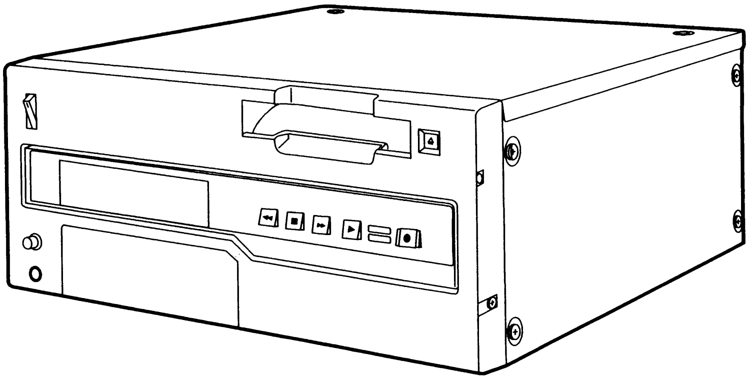
Digital Video Cassette Recorder
AJ-D455P

Component Serial Interface Board
AJ-YA455P

Digital Video Interface Board
AJ-YAD455P

Cassette Adapter
AJ-CS455P

Refer to
BSD0103M901
DVCPRO MECHANISM
Version 2
for Mechanical Adjustment.



Panasonic®

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

AJ-D455P

Specifications

GENERAL

Power supply:	AC 120 V, 50 – 60 Hz
Power consumption:	95 W

Operating ambient temperature:	41°F to 104°F (5°C to 40°C)
Operating ambient humidity:	10% to 90% (no condensation)
Weight:	31.46 lbs (14.3 kg)
Dimensions (W × H × D):	16-3/4 × 6-15/16 ×16-3/8 inches (424 × 175.2 × 415 mm)
Recording format:	DVCPRO format/DV format
Recording video signals:	525i
Recording audio signals:	48 kHz, 16 bits, 2 channels (DVCPRO)
Recording tracks:	Digital video/audio helical track Time code; Recorded in sub-code area Digital audio; 2 channels Cue Track; 1 track Control (CTL); 1 track
Tape speed:	33.820 mm/sec
Recording time:	126 minutes (with AJ-P126LP) 66 minutes (with AJ-P66MP)
Tape:	1/4-inch thin magnetic layer metal tape
FF/REW time:	Less than 3 min (with AJ-P126LP) Less than 2 min (with AJ-P66MP)
Editing accuracy:	±0 frame (using time code)
Tape timer accuracy:	±1 frame (using continuous CTL signal)
Servo lock time:	Less than 0.5 sec. (color framing/ standby ON)

VIDEO

(Digital video)

Sampling frequencies:	Y; 13.5 MHz/PB, PR; 3.375 MHz
Quantizing:	8 bits
Video compression system:	DV-based compression (SMPTE314M)
Video compression ratio:	1/5 (DVCPRO)
Error correction:	Reed-Solomon product code
Video recording/playback bit rate:	25 Mbps (DVCPRO)
Samples × number of effective lines:	720 × 480/frame (DVCPRO)

(Digital IN/Analog component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (±1.0 dB) PB, PR; 30 Hz to 1.3 MHz (±1.0 dB)
S/N ratio:	Better than 56 dB
K factor:	Less than 2%

(Analog component IN/Analog component OUT)

Video bandwidth:	Y; 30 Hz to 5.5 MHz (–1.5 dB to +1.0 dB) PB, PR; 30 Hz to 1.3 MHz (–2.0 dB to +1.0 dB)
S/N ratio:	Better than 55 dB
K factor:	Less than 2%

(Analog composite IN/Analog composite OUT)

Video bandwidth:	Y; 30 Hz to 4.5 MHz (–1.5 dB to +1.0 dB)
DG:	Less than 4%
DP:	Less than 3°
Y/C delay:	Better than 20 ns
K factor:	Less than 3%
S/N ratio:	Better than 48 dB

(Video input connector)

Analog component input:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
Analog composite input:	BNC×2, loop-through, 75Ω on/off
S1 VIDEO input:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω
Reference input:	Analog composite BNC×2, loop-through, 75Ω on/off
Serial digital component input (option):	Complies with SMPTE259M-C standard, BNC×2, active through

(Video output connector)

Analog component output:	BNC×3 (Y, PB, PR) Y; 1.0 Vp-p, 75Ω PB, PR; 0.486/0.7 Vp-p switchable, 75Ω (75% color bar, 7.5% setup)
Analog composite output:	BNC×3 Video1/video2/video3 (superimpose on/off)
S1 VIDEO output:	S terminal (4-pin)×1 Y; 1.0 Vp-p, 75Ω C; 0.286 Vp-p (burst), 75Ω
Serial digital component output (option):	Complies with SMPTE259M-C standard, BNC×3

(Video output signals adjustment)

Video gain:	±3 dB
Chroma gain:	±3 dB
Hue:	±30°
Setup:	±14 IRE
Sync phase:	±15 µs
SC phase:	±180°

AUDIO

(Digital audio)

Sampling frequencies:	48 kHz (synchronized with video signal)
Quantizing:	16 bits
Frequency response:	20 Hz to 20 kHz (±1.0 dB) (at reference level)
Dynamic range:	Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion:	Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk:	Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter:	Below measurable limits
Headroom:	20 dB
De-emphasis:	T1=50 µs/T2=15 µs (on/off automatic)

(Audio input connector)

Analog input (CH1/CH2):	XLR×2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2):	BNC×1, AES/EBU format
Serial digital input (option):	Complies with SMPTE259M-C, 272M-A standard (BNC, 75Ω)

(Audio output connector)

Analog output (CH1/CH2):	XLR×2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2):	BNC×1, AES/EBU format
Serial digital output (option):	Complies with SMPTE259M-C, 272M-A standard (BNC, 75Ω)
Monitor output:	Phono×1, 600Ω, –8 dBV
Headphones:	Variable level, 1/4" phone, 8Ω

Other input/output connector

Time code input:	BNC×1, 0.5 Vp-p to 8 Vp-p, 10 kΩ
Time code output:	BNC×1, 2.0 Vp-p ±0.5 Vp-p, low impedance
RS-422A input/output:	D-sub 9-pin, RS-422A interface
RS-232C:	D-sub 25-pin, RS-232C interface
Encoder remote:	D-sub 15-pin
Digital video interface input/ output (option):	Compliant with IEEE1394-1995 standard, 6 pins × 1

Weight and dimensions when shown are approximately.
Specifications are subject to change without notice.

AJ-YA455P

Specifications

Video input:
BNC ×2, active through

Video output:
BNC ×3

Weight:
0.21 lb. (94 g) (board),
0.2 lb. (90 g) (connector board)

Dimensions (W×H):
5″×5-1/2″ (127×140 mm) (board),
1-5/8″×2-3/4″ (42×71 mm) (connector board)

AJ-YAD455P

Specifications

■ **Digital video interface board**

Dimensions (W×H×D):
5-11/16″×5-9/16″×9/16″ (143×140×13 mm)

Weight:
0.246 lb (112 g)

■ **Input/output facility**

Connector:
6-pin type

Transfer rate:
100 Mbps

Transfer data:
Compliant with IEC-61883/FDS (Part-1, 2)

Control commands:
Compliant with AV/C command set

Accessories

Connector board (×1)
Connecting cable (×1)

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been over-heated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5MΩ.

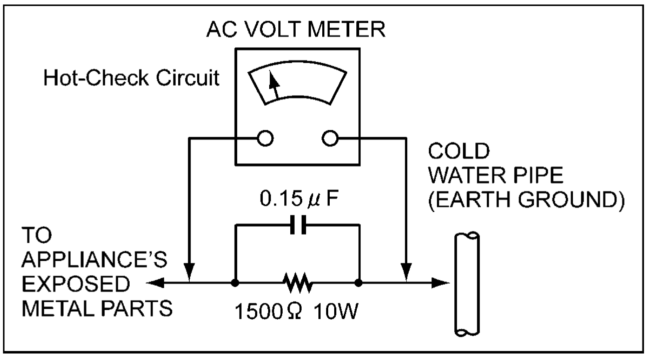


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ, 10W resistor, in parallel with a 0.15μ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
   (most replacement ES devices are package with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note : It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV,±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

IMPORTANT

"Unauthorized recording of copyrighted television programs, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

THIS APPARATUS MUST BE EARTHED

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

WARNING:

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL INTERFACE BOARD TO AUTHORIZED SERVICE PERSONNEL.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CAUTION:

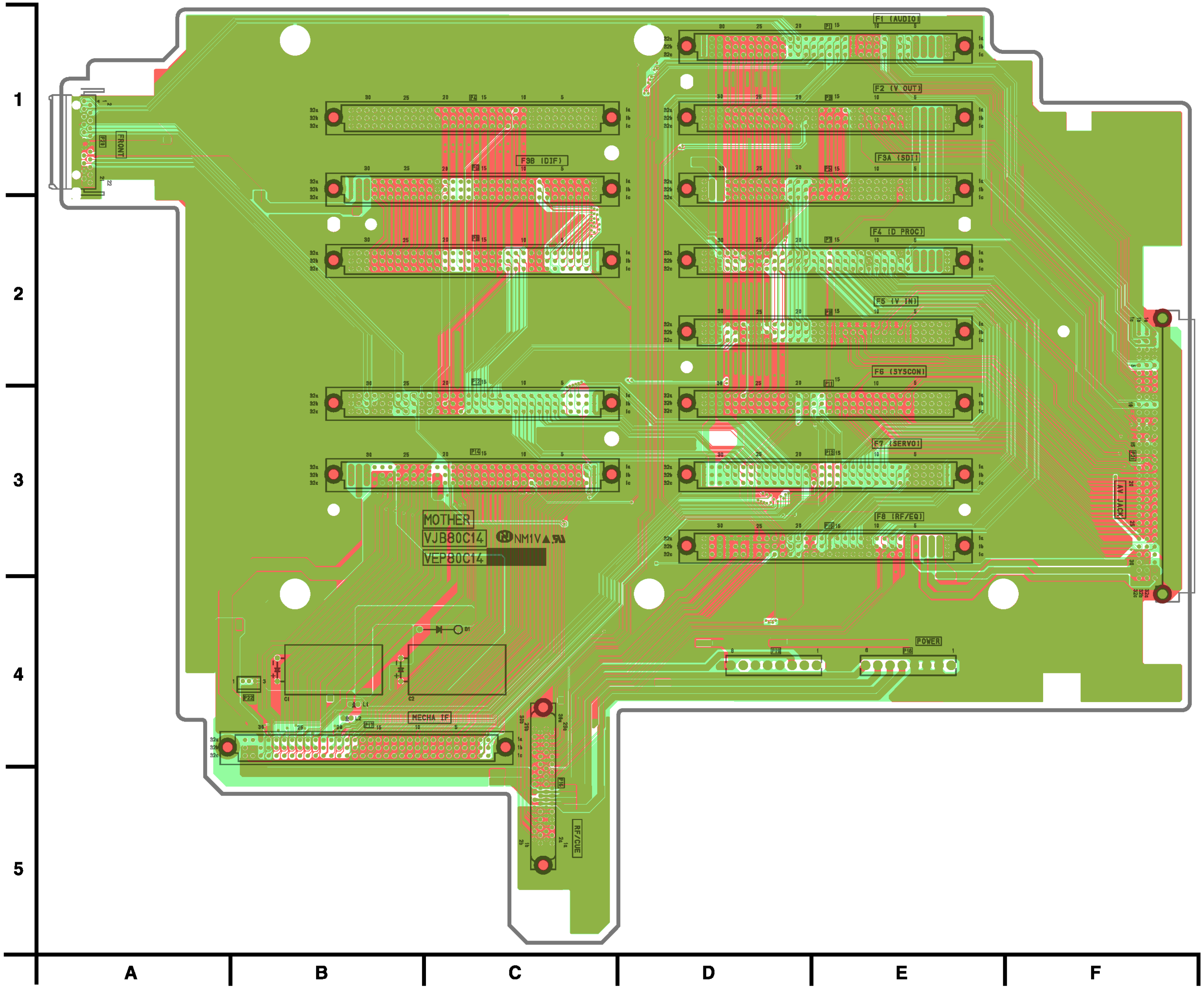
Do not install or place this unit in a bookcase, built in cabinet or in another confined space in order to keep well ventilated condition. Ensure that curtains and any other materials do not obstruct the ventilation condition to prevent risk of electric shock or fire hazard due to overheating.

▭ is the safety information.

MOTHER P.C. BOARD (VEP80C14A)

COMPONENT SIDE

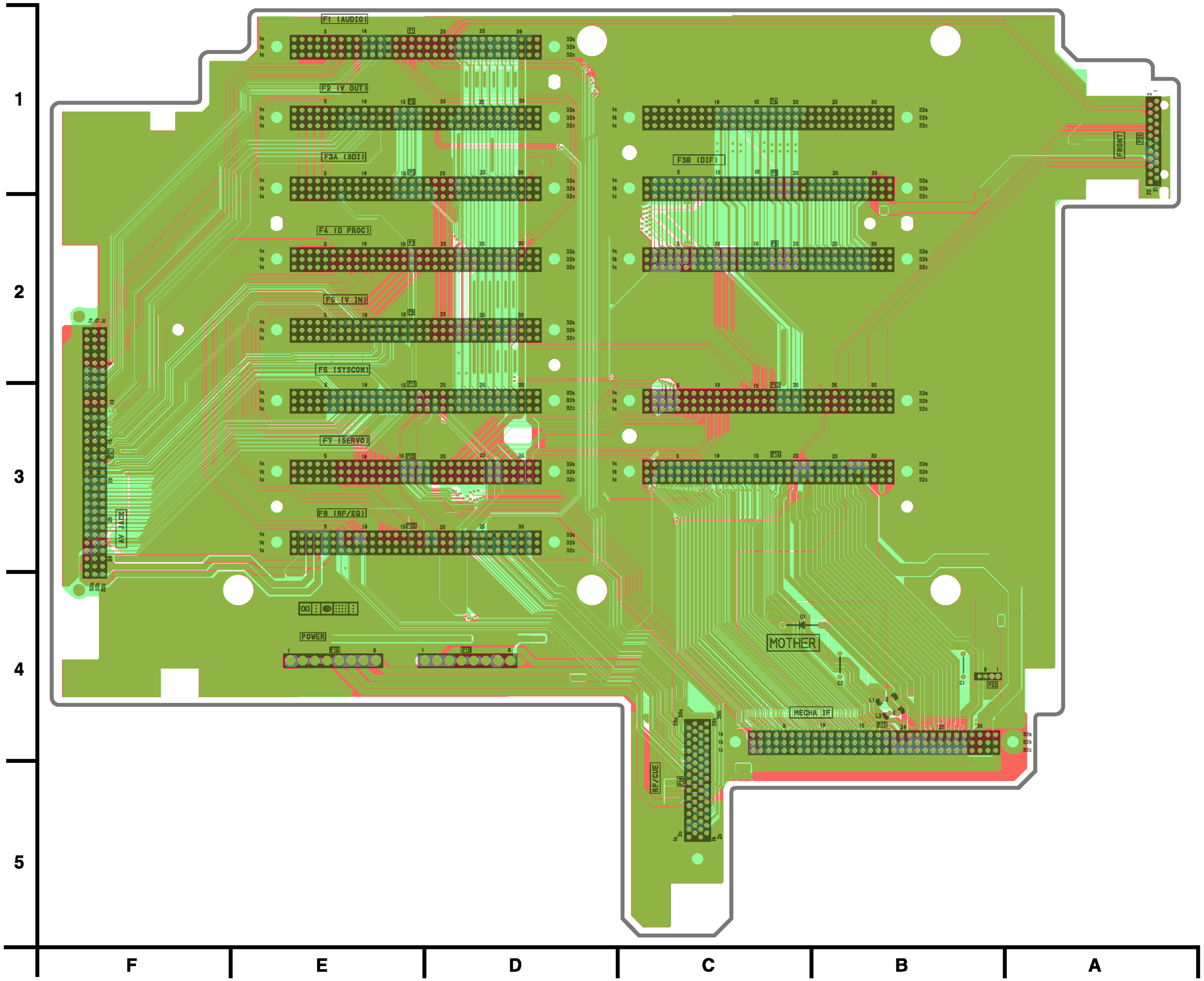
REF	LOC
P1	E1
P3	E1
P4	C1
P5	E1
P6	C1
P7	E2
P8	C2
P9	E2
P11	E3
P12	C3
P13	E3
P14	C3
P15	E3
P16	C5
P17	B4
P18	E4
P19	D4
P20	A1
P21	F3
P22	B4


1
2
3
4
5
A
B
C
D
E
F
F1 (AUDIO)
F2 (V OUT)
F3B (DIF)
F3A (SDI)
F4 (D PROC)
F5 (V IN)
F6 (SYSCON)
F7 (SERVO)
F8 (RF/EQ)
FRONT
AV JACK
MOTHER
VJB80C14
VEP80C14
NM1V
POWER
MECHA IF
RF/CUE
P20
P21
P22
P16
P17
P18
P19
C1
C2
L1
L2
D1

(COMPONENT SIDE)

MOTHER P.C. BOARD (VEP80C14A)

CBA-18


1
2
3
4
5
F
E
D
C
B
A
F1 (AUDIO)
F2 (Y OUT)
F3A (SDI)
F4 (D PROC)
F5 (V IN)
F6 (SYSCON)
F7 (SERVO)
F8 (RF/EQ)
F3B (DIF)
FRONT
AV JACK
POWER
MOTHER
MECHA IF
RF/CUE

(FOIL SIDE)

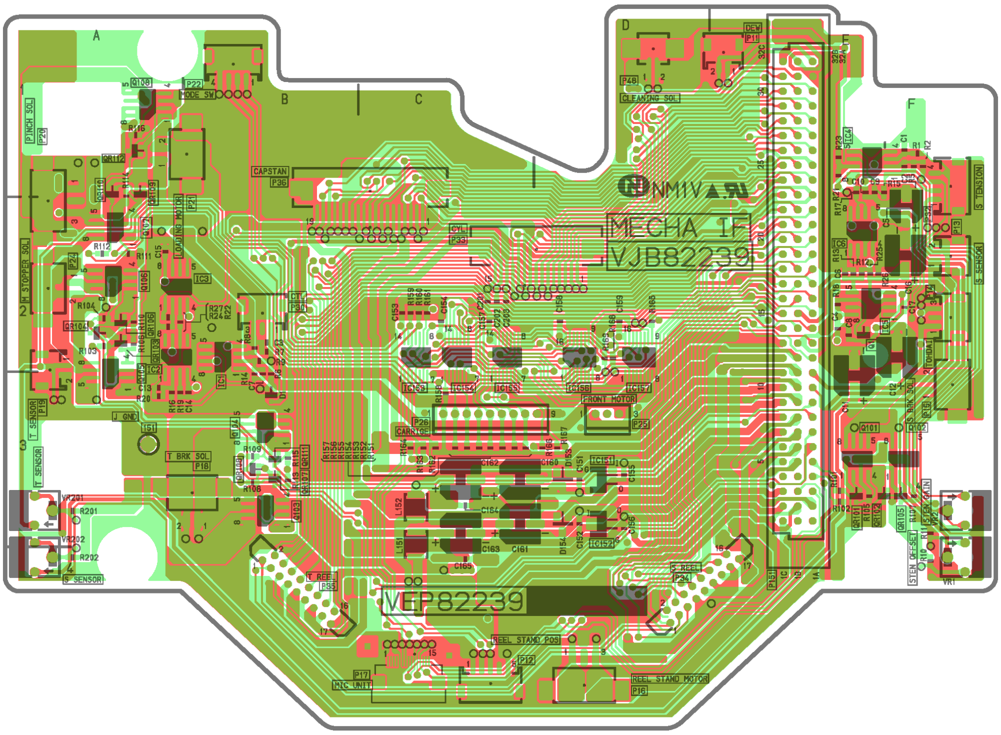
FOIL SIDE

REF	LOC
P1	E1
P3	E1
P4	C1
P5	E1
P6	C1
P7	E2
P8	C2
P9	E2
P11	E3
P12	C3
P13	E3
P14	C3
P15	E3
P16	C5
P17	B4
P18	E4
P19	D4
P20	A1
P21	F3
P22	B4

MECHA IF P.C. BOARD (VEP82239A)

COMPONENT SIDE

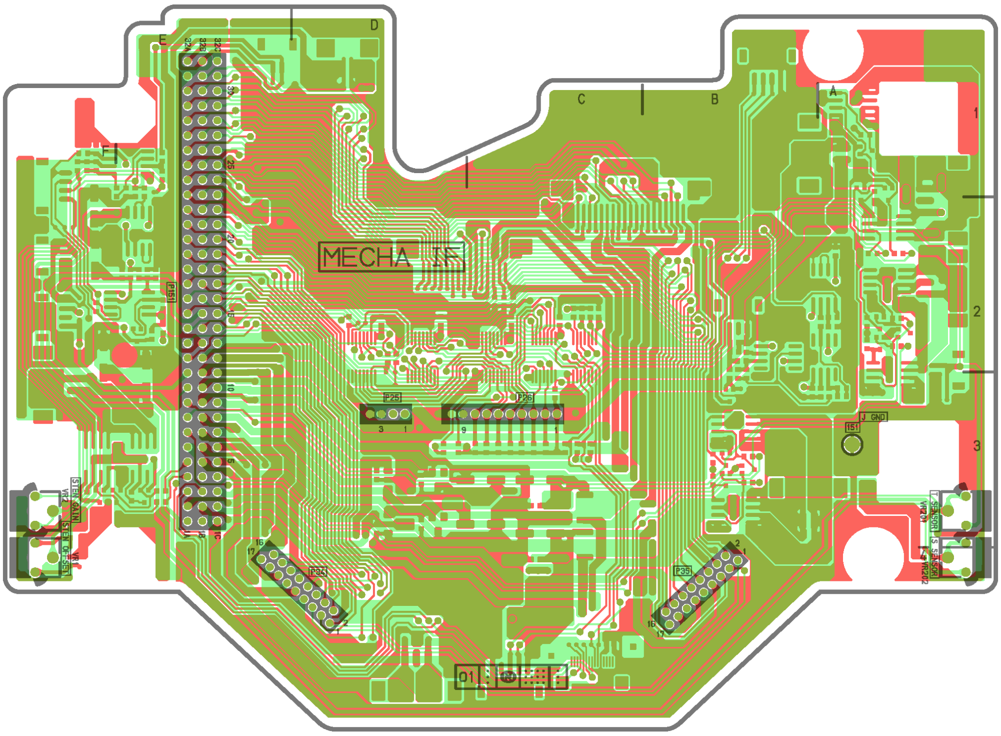
REF	LOC	REF	LOC
IC1	B2	P33	C2
IC2	A2	P34	D4
IC3	A2	P35	B4
IC4	E1	P36	B1
IC5	A2	P48	D1
IC5	E2	P151	E4
IC6	E2	Q1	E2
IC151	D3	Q101	E3
IC152	D3	Q102	F3
IC153	C2	Q103	B3
IC154	C2	Q104	B3
IC155	C2	Q106	A2
IC156	D2	Q107	A2
IC157	D2	Q108	A1
P11	E1	QR101	E3
P12	C4	QR102	E3
P13	F2	QR103	A2
P14	F2	QR104	A2
P15	F3	QR105	F3
P16	D4	QR106	A2
P17	C4	QR107	B3
P18	B3	QR108	B3
P19	A2	QR109	A1
P20	A1	QR110	A1
P21	B1	QR111	B3
P22	B1	QR112	A1
P24	A2	VR1	F4
P25	D3	VR2	F3
P26	C3	VR201	A3
P30	B2	VR202	A3
P32	F1		


A
B
C
D
E
F
MECHA IF
VJB82239
VEP82239
NMIV
CAPSTAN
CLEANING SOL
PINCH SOL
LOADING MOTOR
MODE SW
STOPPER SOL
T SENSOR
S SENSOR
J GND
T BRK SOL
CARRIAGE
FRONT MOTOR
T REEL
S REEL
REEL STAND POS
REEL STAND MOTOR
MIC UNIT
TENSION
DEW

(COMPONENT SIDE)

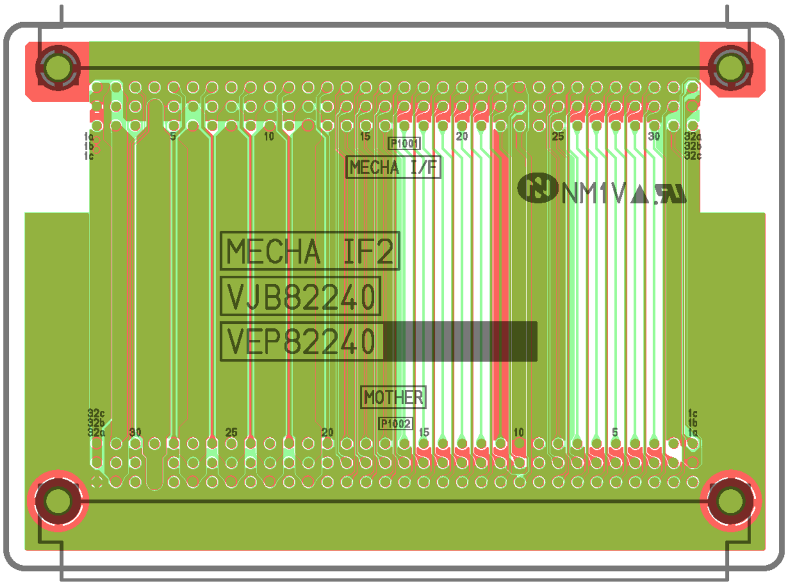
FOIL SIDE

REF	LOC
P151	E2
P25	D3
P26	C3
P34	D4
P35	B4
VR1	F4
VR2	F3
VR201	A3
VR202	A4

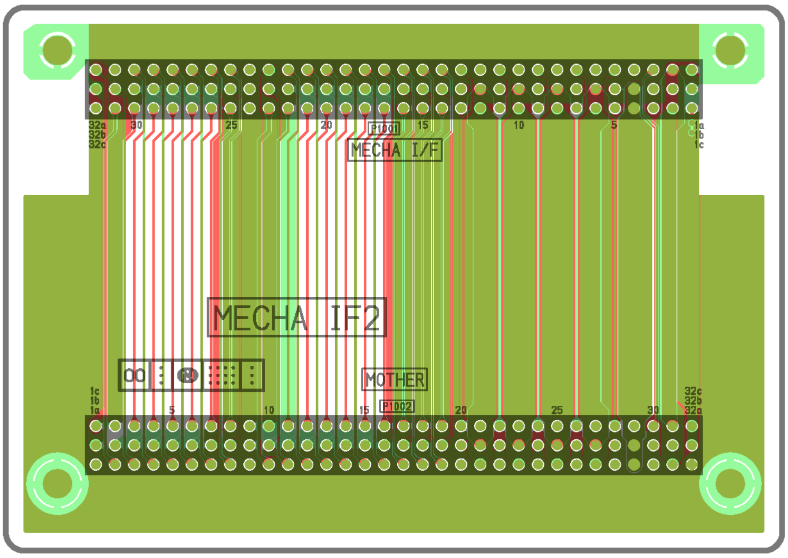

A
B
C
D
E
F
1
2
3
MECHA IF
P26
P25
P34
P35
P151
J GND

(FOIL SIDE)

MECHA IF2 P.C.BOARD (VEP82240A)


P1001
MECHA I/F
MECHA IF2
VJB82240
VEP82240
MOTHER
P1002
NM1V

(COMPONENT SIDE)


P1001
MECHA I/F
MECHA IF2
MOTHER
P1002

(FOIL SIDE)

POWER1 P.C. BOARD (VEP81221A)

COMPONENT SIDE

REF	LOC
IC1001	C3
IC1101	C4
IC1102	D4
IC1103	C3
IC1201	D2
IC1202	D3
IC1203	D4
IC1205	D1
P1103	A1
P1201	E2
P1202	E3
Q1001	B1
Q1002	D2
Q1003	D2
Q1004	D3
Q1102	B2
Q1103	B2
VR1102	C4
VR1201	D3

JAPAN ONLY

⚠ 警 告

感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。

＋感電ややけどの可能性があります。

① ⚠ 警 告 ⚠ 印の部品は安全上重要な部品です。交換するときは、安全及び性能維持のため必ず指定の部品をご使用ください。

② ▭ 内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。

③ 部品交換時には、電源プラグをぬいてから行ってください。

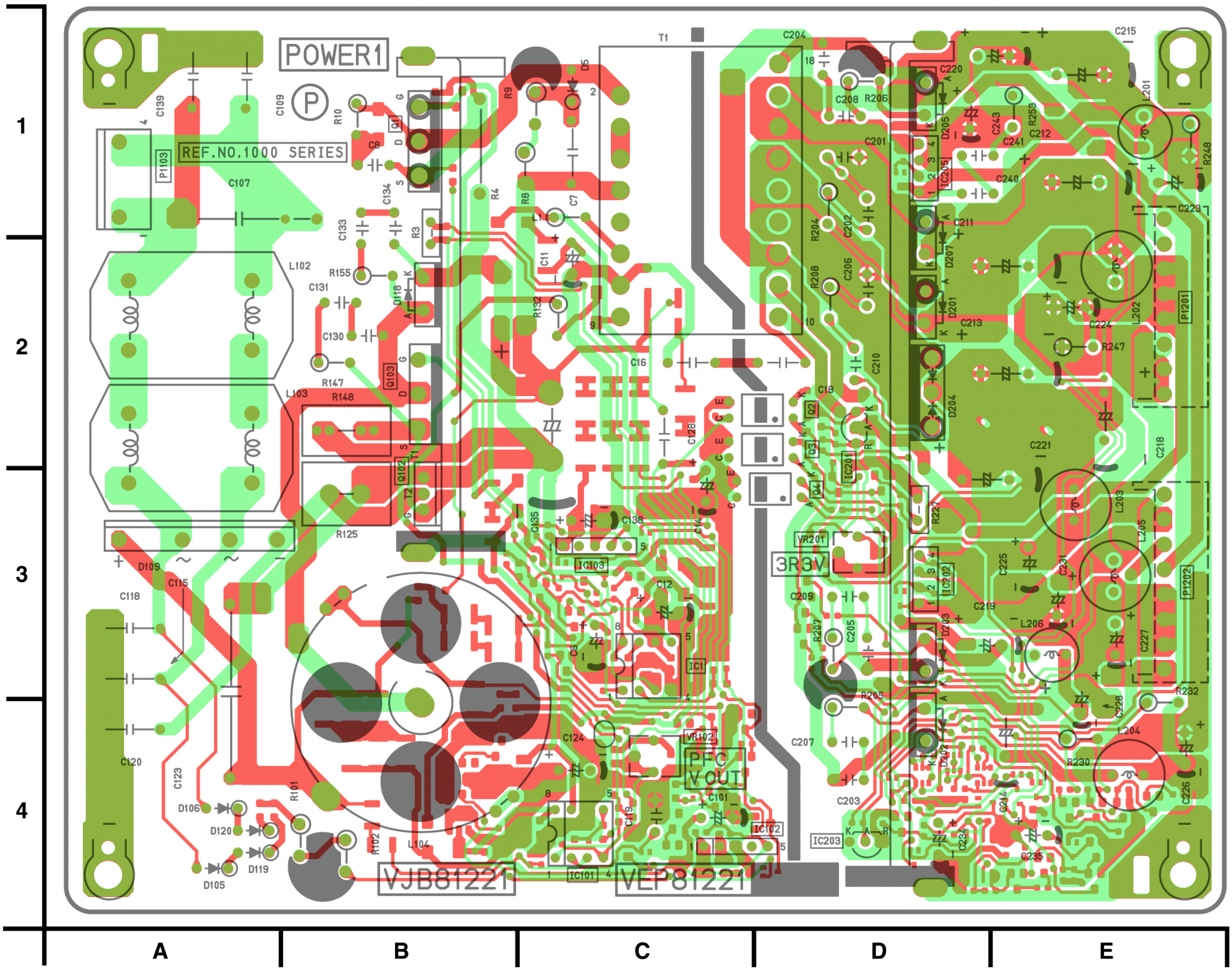
④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。

⑤ 部品品番は、部品価格表で確認の上交換ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



(COMPONENT SIDE)

POWER1 P.C. BOARD (VEP81221A)

FOIL SIDE

REF	LOC
IC1001	C3
IC1101	C4
IC1102	C4
IC1103	C3
IC1201	D2
IC1202	D3
IC1203	D4
IC1204	D4
IC1205	D1
P1103	A1
P1201	F2
P1202	F3
Q1001	B1
Q1002	C2
Q1003	C2
Q1004	C3
Q1101	B4
Q1102	B3
Q1103	B2
Q1201	D4
Q1202	D4
Q1203	D4
Q1204	B3
QR1001	C3
QR1002	C3
QR1101	B4
QR1102	C4
QR1103	C4
QR1104	C4
QR1105	C4
QR1201	D3
QR1202	D3
QR1203	F4
QR1204	F4
QR1205	F4
QR1206	F4
QR1207	F4

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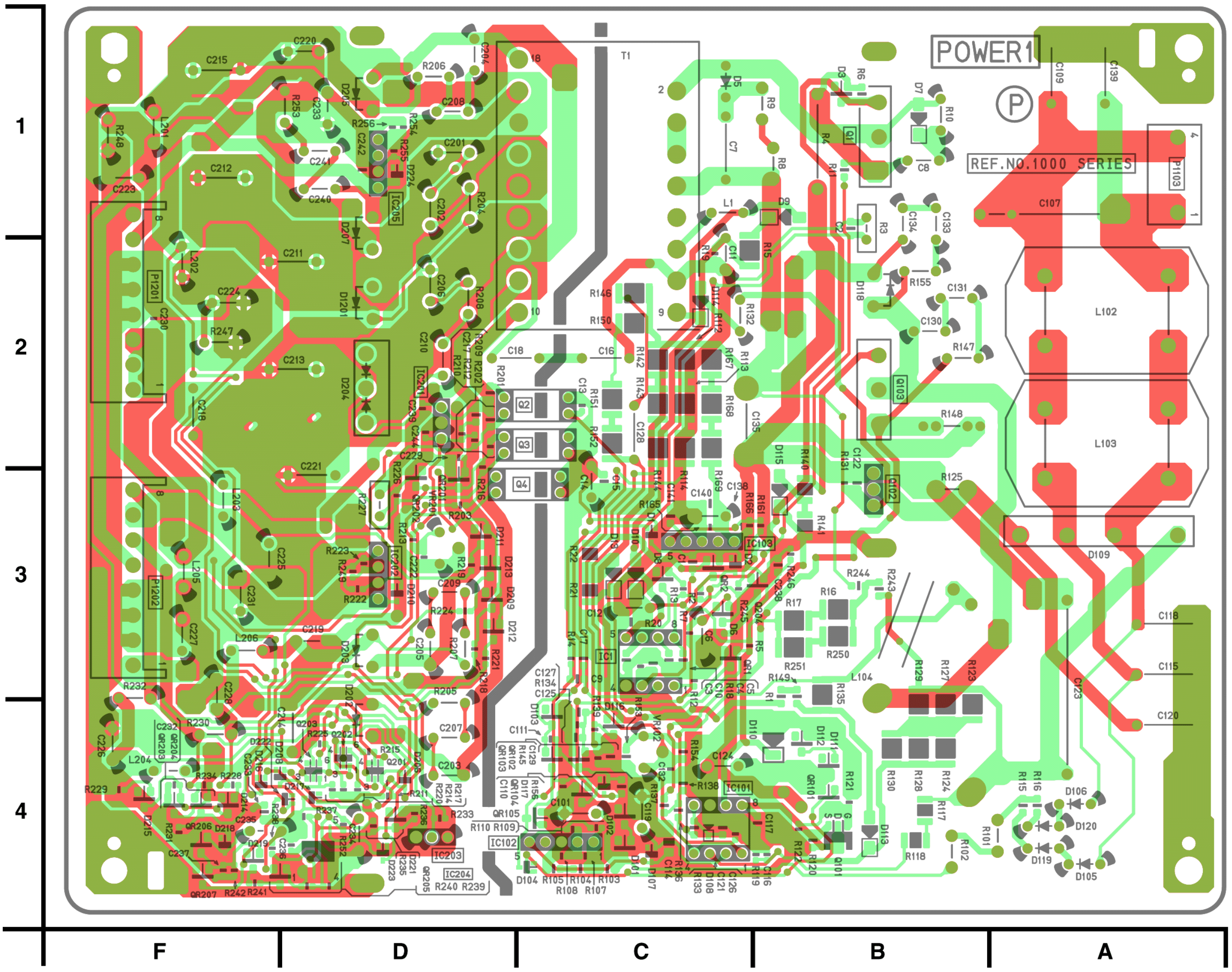
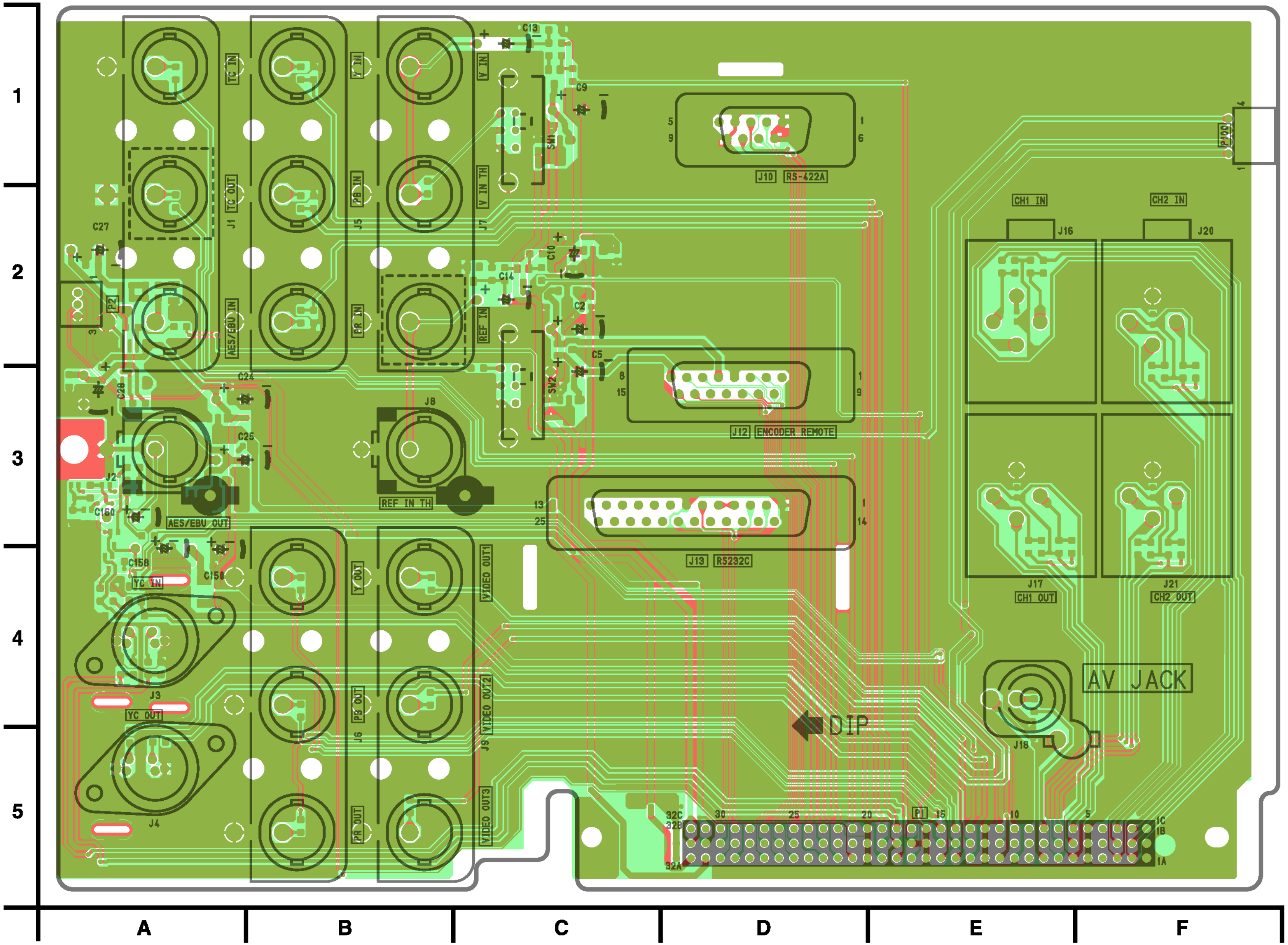

1
2
3
4
F
D
C
B
A
POWER1
REF.NO.1000 SERIES
T1
L102
L103
L1
IC101
IC102
IC103
IC203
IC204
IC205
P1103
P1201
P1202
Q1
Q2
Q3
Q4
Q101
Q102
Q103
D109
C107

(FOIL SIDE)

AV JACK P.C. BOARD (VEP80C13B)

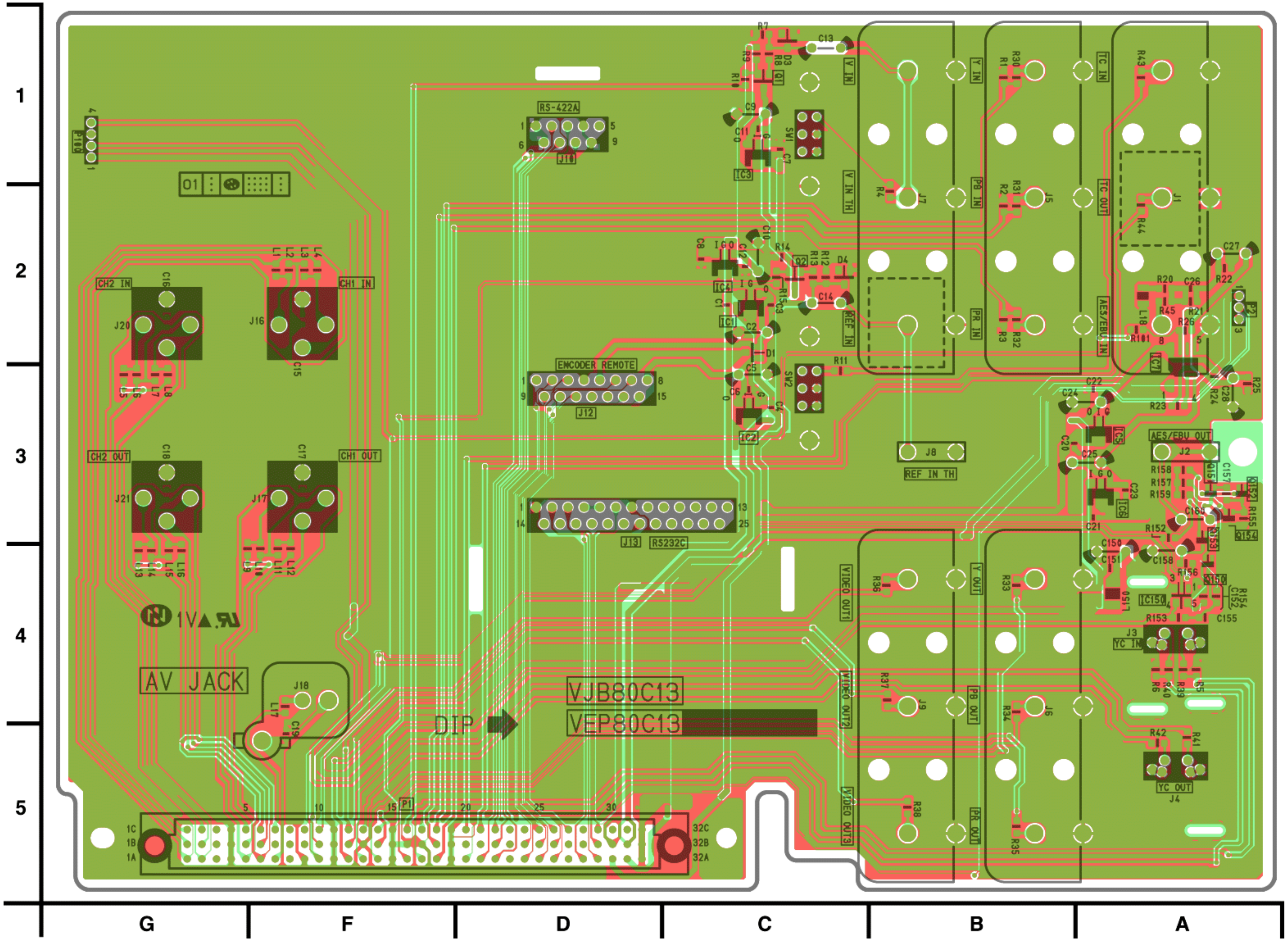
COMPONENT SIDE

REF	LOC
P1	E5
P2	A2
P100	F1


1
2
3
4
5
A
B
C
D
E
F
TC IN
TC OUT
AES/EBU IN
J1
Y IN
PB IN
PR IN
J5
V IN
V IN TH
REF IN
J7
C13
C9
SW1
C10
C14
C2
C5
SW2
C27
C24
C25
C28
P2
J2
J8
REF IN TH
AES/EBU OUT
C160
C158
C150
YC IN
J3
YC OUT
J4
Y OUT
PB OUT
PR OUT
J6
VIDEO OUT1
VIDEO OUT2
VIDEO OUT3
J9
J10
RS-422A
J12
ENCODER REMOTE
J13
RS232C
CH1 IN
J16
CH2 IN
J20
J17
CH1 OUT
J21
CH2 OUT
J18
AV JACK
DIP
P1
P100
32C
32B
32A
30
25
20
15
10
5
1C
1B
1A

(COMPONENT SIDE)

AV JACK P.C. BOARD (VEP80C13B)



1
2
3
4
5
G
F
D
C
B
A
AV JACK
VJB80C13
VEP80C13
DIP
RS-422A
J10
ENCODER REMOTE
J12
J13
RS232C
CH1 IN
CH2 IN
CH1 OUT
CH2 OUT
J16
J17
J18
J20
J21
Y IN
V IN
V IN TH
PB IN
PR IN
REF IN
TC IN
TC OUT
AES/EBU IN
AES/EBU OUT
REF IN TH
J8
J2
YC IN
J3
YC OUT
J4
VIDEO OUT1
VIDEO OUT2
VIDEO OUT3
Y OUT
PB OUT
PR OUT
P100
P1
P2
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC150
SW1
SW2

(FOIL SIDE)

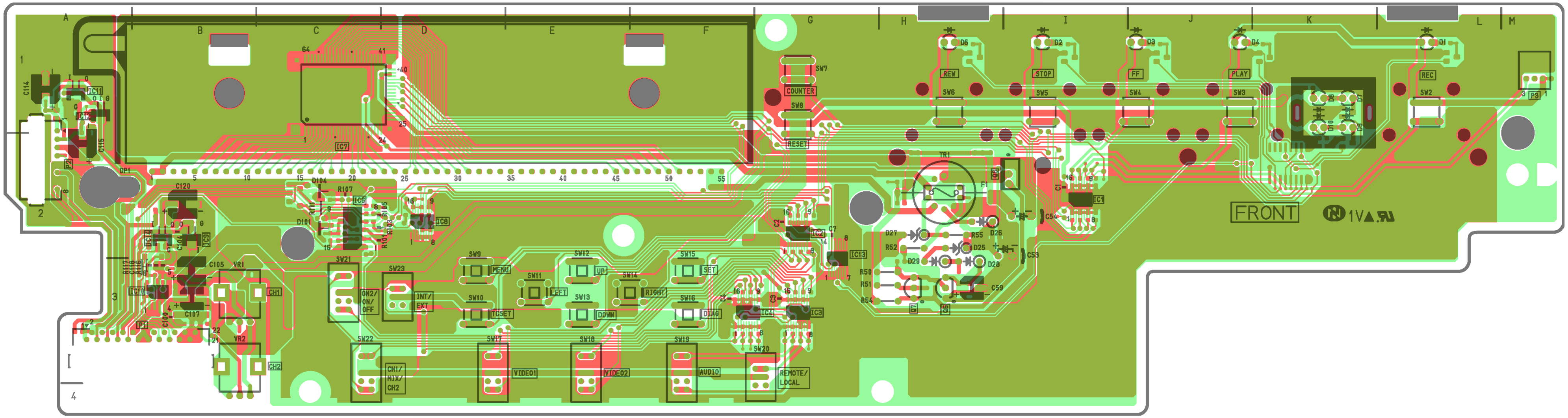
FOIL SIDE

REF	LOC
IC1	C2
IC2	C3
IC3	C1
IC4	C2
IC5	A3
IC6	A3
IC7	A2
IC150	A4
P1	F5
P2	A2
P100	G1
Q1	C1
Q2	C2
Q150	A4
Q151	A3
Q152	A3
Q153	A3
Q154	A3

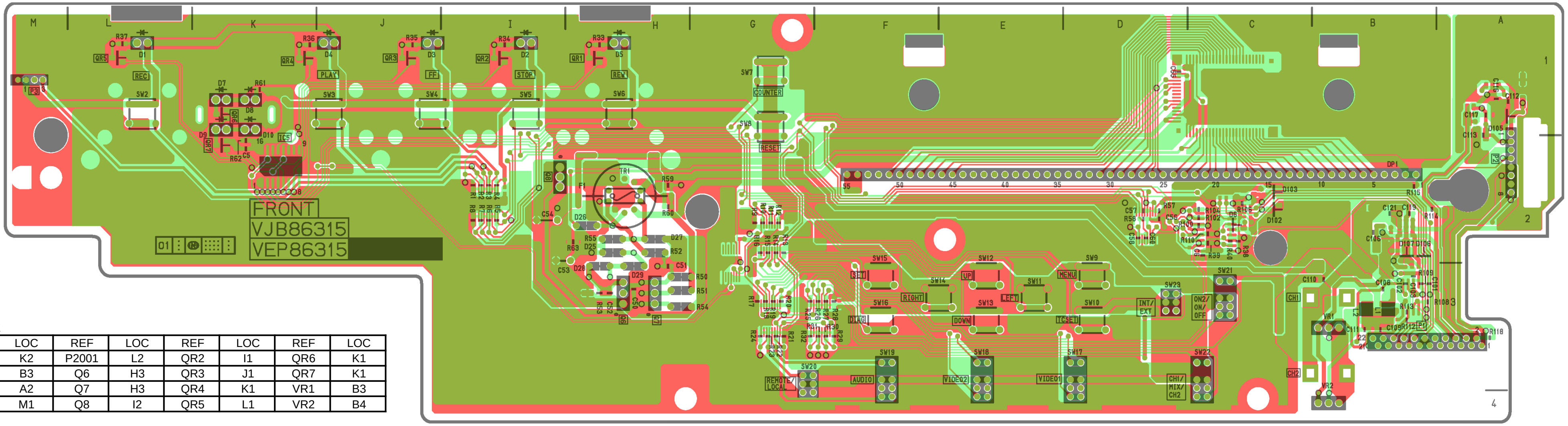
FRONT P.C. BOARD (VEP86315A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	I1	IC6	C2	IC10	B3	IC14	B2	P2001	L2	VR1	B3
IC2	G2	IC7	C2	IC11	A1	P1	B3	Q6	H3	VR2	B3
IC3	G3	IC8	D2	IC12	A1	P2	A2	Q7	H3		
IC4	F3	IC9	B2	IC13	G2	P3	M1	Q8	I2		


A
B
C
D
E
F
G
H
I
J
K
L
M
1
2
3
4
IC7
IC1
IC2
IC3
IC4
IC6
IC8
IC10
IC11
IC12
IC13
IC14
DP1
TR1
F1
D1
D2
D3
D4
D5
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13
SW14
SW15
SW16
SW17
SW18
SW19
SW20
SW21
SW22
SW23
COUNTER
RESET
REW
STOP
FF
PLAY
REC
MENU
UP
SET
LEFT
RIGHT
DOWN
DIAG
CH1
CH2
VR1
VR2
ON2/ON/OFF
INT/EXT
CH1/MIX/CH2
VIDEO1
VIDEO2
AUDIO
REMOTE/LOCAL
FRONT
1VA

(COMPONENT SIDE)

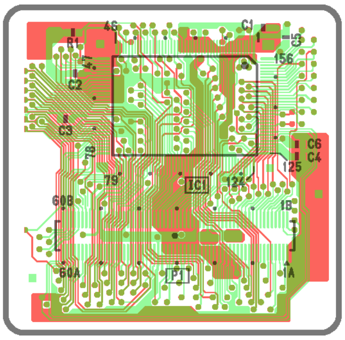

M
L
K
J
I
H
G
F
E
D
C
B
A
1
2
3
4
QR1
QR2
QR3
QR4
QR5
IC5
DP1
TR1
F1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
COUNTER
RESET
REC
PLAY
FF
STOP
REW
MENU
UP
SET
LEFT
RIGHT
DOWN
DIAG
CH1
CH2
VR1
VR2
ON2/ON/OFF
INT/EXT
CH1/MIX/CH2
VIDEO1
VIDEO2
AUDIO
REMOTE/LOCAL
FRONT
VJB86315
VEP86315

(FOIL SIDE)

FOIL SIDE

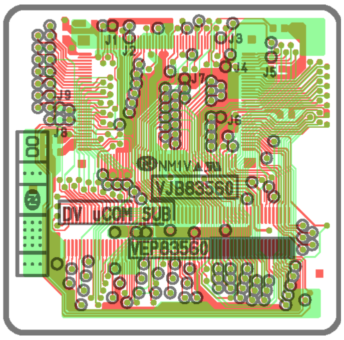
REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC5	K2	P2001	L2	QR2	I1	QR6	K1
P1	B3	Q6	H3	QR3	J1	QR7	K1
P2	A2	Q7	H3	QR4	K1	VR1	B3
P3	M1	Q8	I2	QR5	L1	VR2	B4

DV u COM P.C. BOARD (VEP83560A)



IC1
P1
C1
C2
C3
C4
C5
C6
1
46
156
125
78
79
60B
60A
1B
1A

(COMPONENT SIDE)



J1
J2
J3
J4
J5
J6
J7
J8
J9
NM1V
VJB83560
DV uCOM SUB
VEP83560

(FOIL SIDE)

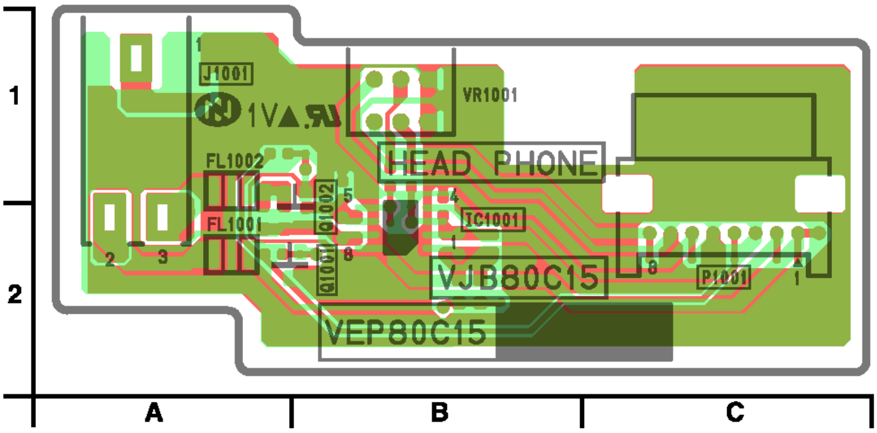
HP P.C. BOARD (VEP80C15A)

COMPONENT SIDE

REF	LOC
IC1001	B2
Q1001	A2
Q1002	A2
VR1001	B1
P1001	C2

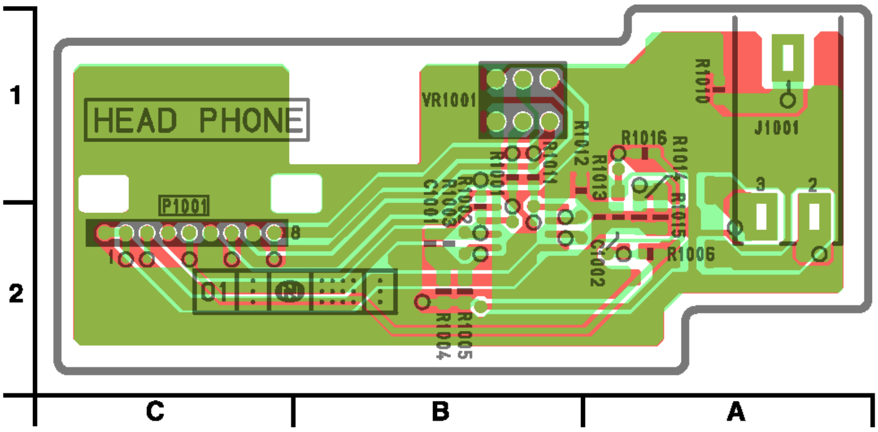
FOIL SIDE

REF	LOC
P1001	C2
VR1001	B1



1
2
A
B
C
J1001
1VA
VR1001
HEAD PHONE
FL1002
FL1001
Q1002
Q1001
IC1001
5
4
8
1
2
3
VJB80C15
VEP80C15
P1001
8
1

(COMPONENT SIDE)



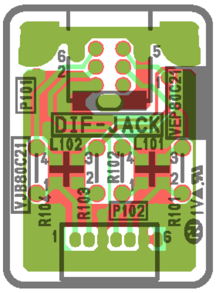
1
2
C
B
A
HEAD PHONE
P1001
1
8
VR1001
R1010
J1001
R1016
R1012
R1013
R1011
R1007
R1003
R1002
C1001
R1014
R1015
C1002
R1006
R1004
R1005
3
2

(FOIL SIDE)

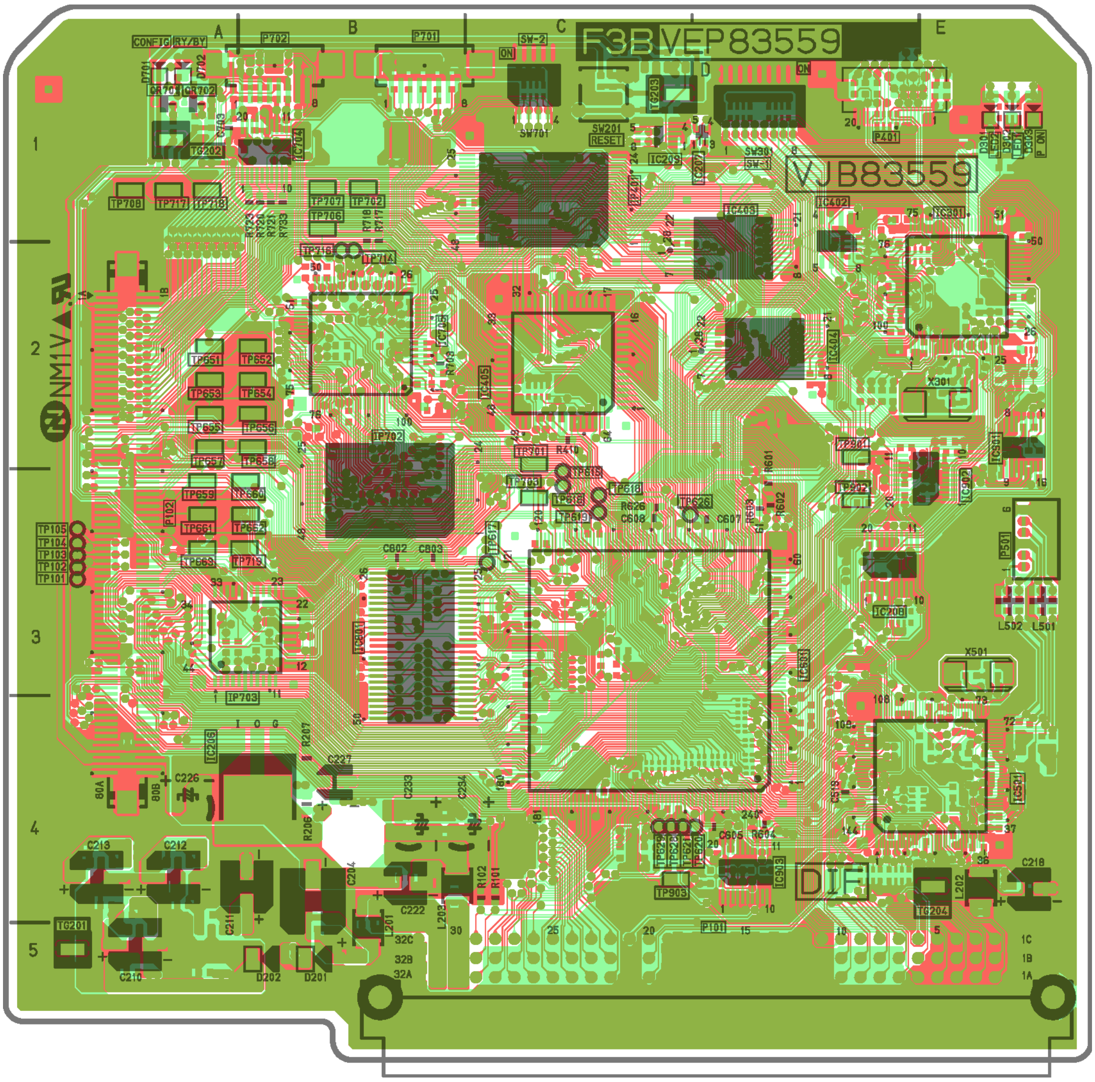
F3B DIF / DIF JACK P.C.BOARD
(VEP83559A / VEP80C21A) (AJ-YAD455P)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC206	A4	IC902	E3	SW301	D1	TP619	C3	TP660	B3	TP901	D2
IC207	D1	IC903	D4	SW701	C1	TP620	D4	TP661	A3	TP902	D3
IC208	D3	IP401	C1	TG201	A5	TP621	C4	TP662	B3	TP903	C4
IC209	C1	IP702	B2	TG202	A1	TP626	C3	TP663	A3		
IC301	E1	IP703	B3	TG203	C1	TP628	C4	TP701	C2		
IC402	D1	P101	D5	TG204	E4	TP629	C4	TP702	B1		
IC403	D1	P102	A3	TP101	A3	TP651	A2	TP703	C3		
IC404	D2	P401	D1	TP102	A3	TP652	B2	TP706	B1		
IC405	C2	P501	E3	TP103	A3	TP653	A2	TP707	B1		
IC501	E4	P701	B1	TP104	A3	TP654	B2	TP708	A1		
IC601	C3	P702	B1	TP105	A3	TP655	A2	TP714	B2		
IC704	B1	QR701	A1	TP615	C3	TP656	B2	TP716	B2		
IC705	B2	QR702	A1	TP616	C3	TP657	A2	TP717	A1		
IC801	B3	SW-2	C1	TP617	C3	TP658	B2	TP718	A1		
IC901	E2	SW201	C1	TP618	C3	TP659	A3	TP719	B3		


DIF-JACK
VEP80C21
VJB80C21
P101
P102
L101
L102
R101
R102
R103
R104

(COMPONENT SIDE)

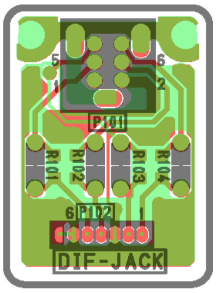

F3B VEP83559
VJB83559
DIF
A
B
C
D
E
1
2
3
4
5

(COMPONENT SIDE)

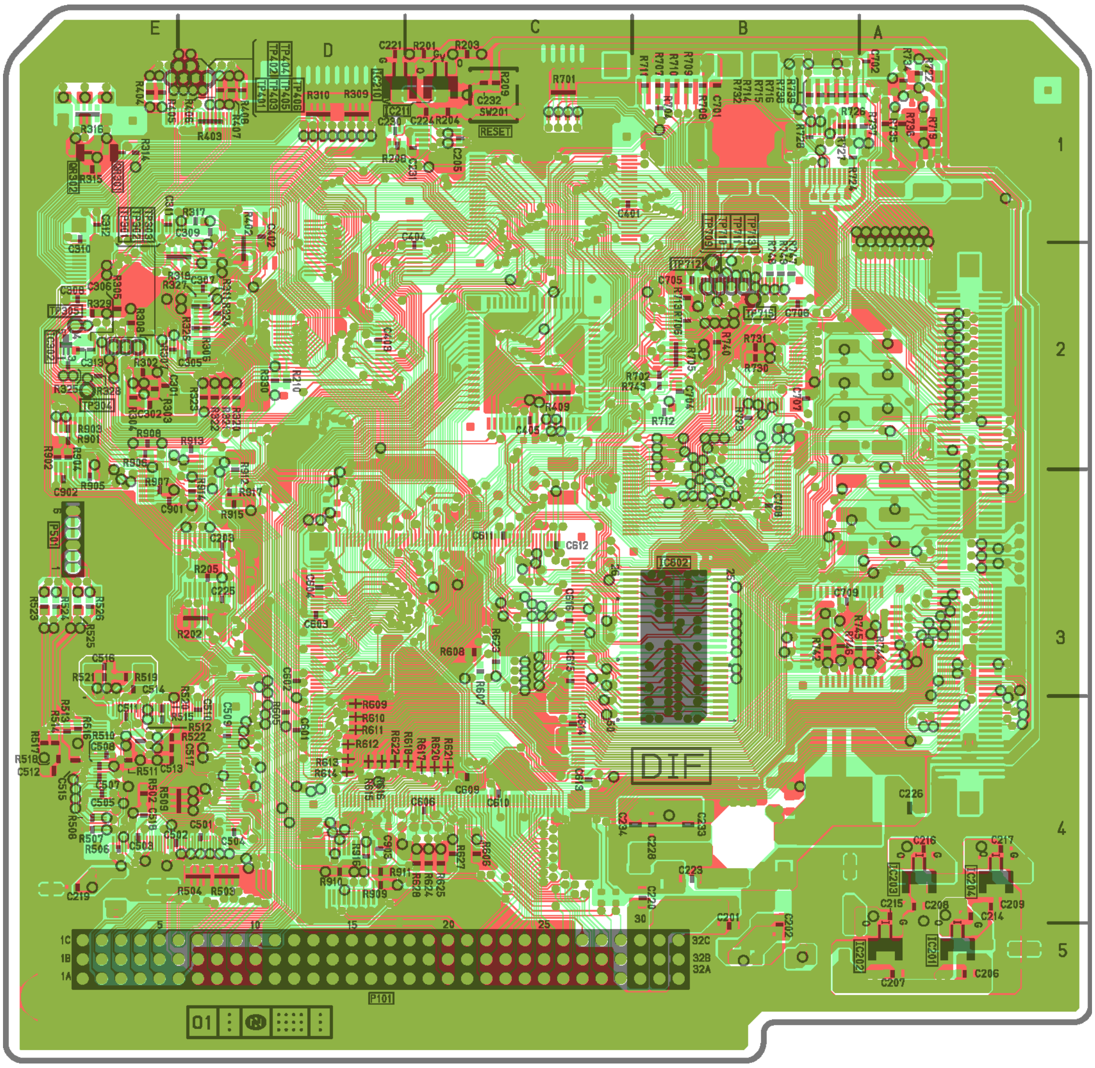
F3B DIF / DIF JACK P.C.BOARD
(VEP83559A / VEP80C21A) (AJ-YAD455P)

FOIL SIDE

REF	LOC	REF	LOC
IC201	A5	TP303	E1
IC202	A5	TP304	E2
IC203	A4	TP305	E2
IC204	A4	TP401	D1
IC210	D1	TP402	D1
IC211	D1	TP403	D1
IC302	E2	TP404	D1
IC802	B3	TP405	D1
P101	D5	TP406	D1
P501	E3	TP709	B2
QR301	E1	TP710	B2
QR302	E1	TP711	B2
SW201	C1	TP712	B2
TP301	E1	TP713	B2
TP302	E1	TP715	B2


5
6
1
2
P101
R101
R102
R103
R104
6
P102
1
DIF-JACK

(FOIL SIDE)

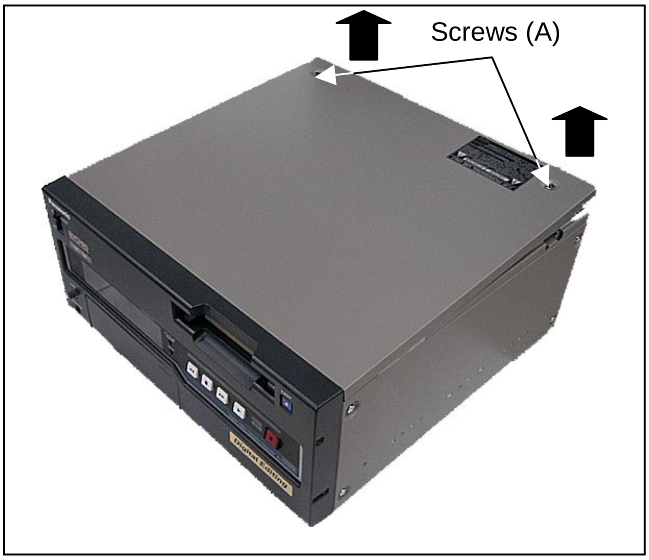

E
D
C
B
A
1
2
3
4
5
SW201
RESET
IC602
DIF
P501
IC201
IC202
IC203
IC204
P101
1A
1B
1C
32A
32B
32C
5
10
15
20
25
30

(FOIL SIDE)

DISASSEMBLE PROCEDURES

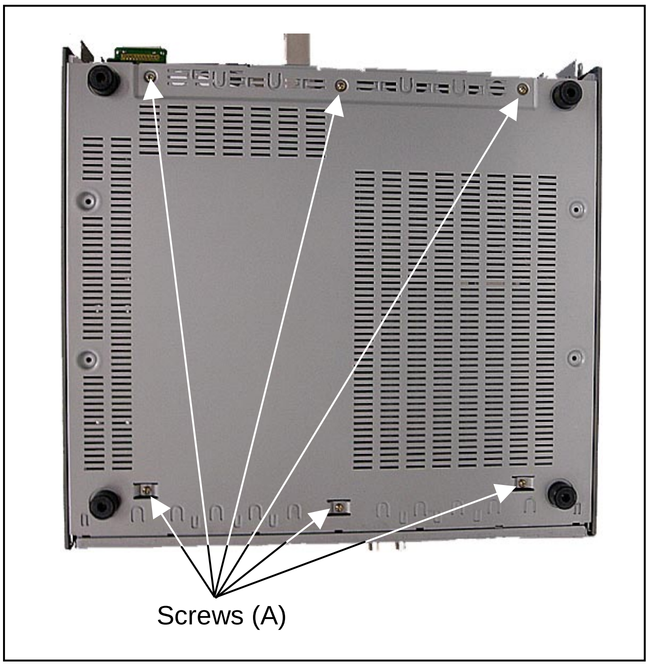
1-1. Removal of Top Panel

1. Loosen s screws (A) and remove the Top Panel.



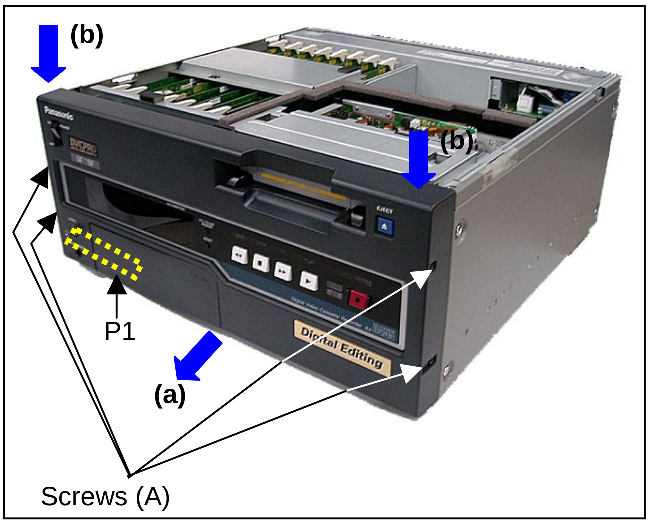
1-2. Removal of Bottom Panel

1. Unscrew the 6 screws (A) and remove the Bottom Panel.



1-3. Removal of Front Panel

1. Unscrew the 4 screws (A) and remove the Front Panel.

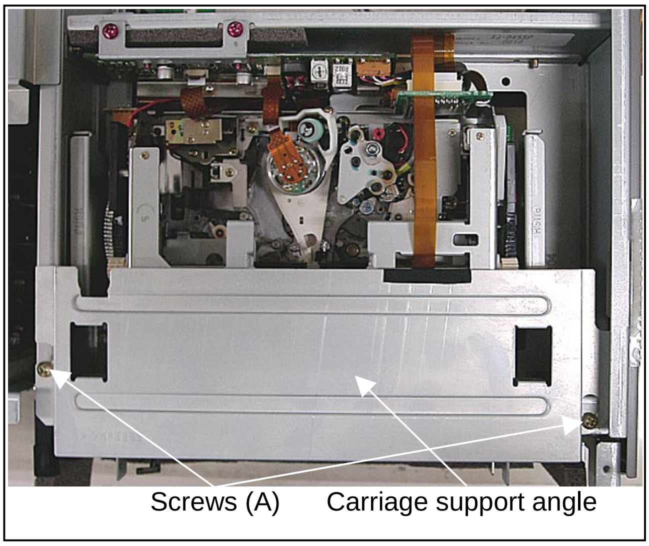


Notes:1. When remove the Front Panel, slightly pull the Front panel for direction in arrow **(a)** (disconnect a connector P1) and then remove the Front Panel for direction in arrow **(b)**.

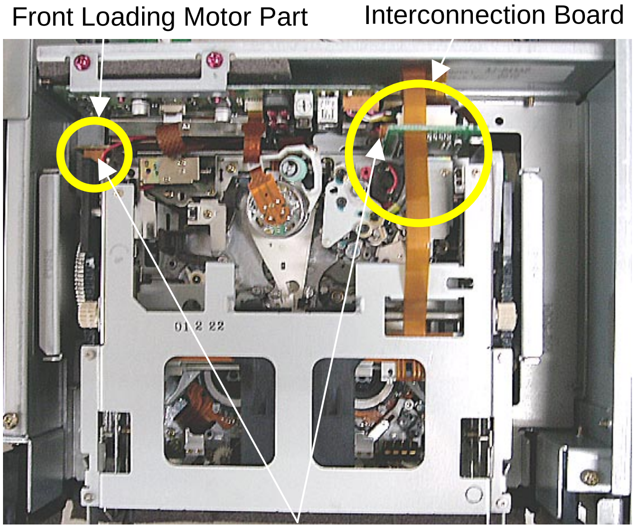
2. After installation of Front Panel, confirm that the Blinder Panel is moved up and down smoothly by hand.
3. Check the connector has been connected securely.

1-4. Removal of Front Loading Unit

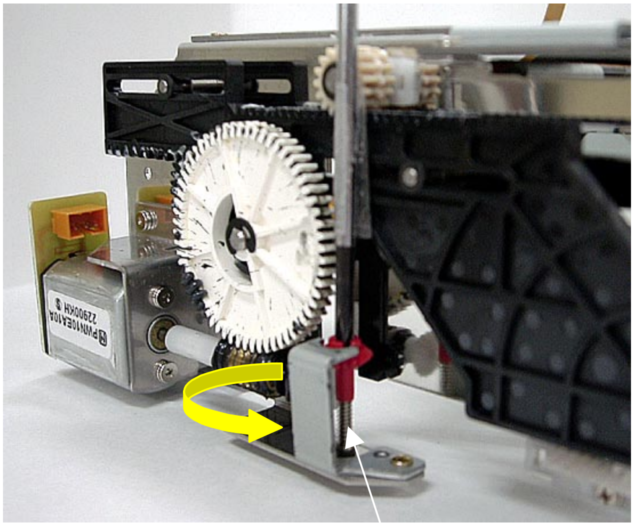
1. Remove the Front Panel. (Refer to item 1-3.)
2. Loosen 2 screws (A) and remove the Carriage support angle.



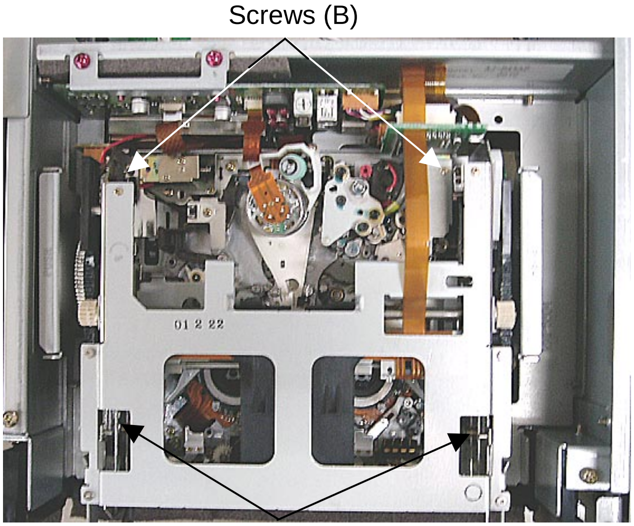
3. Disconnect 2 connectors (A) at Front Loading motor Board and the Interconnection Board.


Front Loading Motor Part
Interconnection Board
Connectors (A)

4. Push and rotate the red plastic gear in front of the Front loading motor counterclockwise until the screw (A) which is used to fix the Front Loading Unit can be seen.

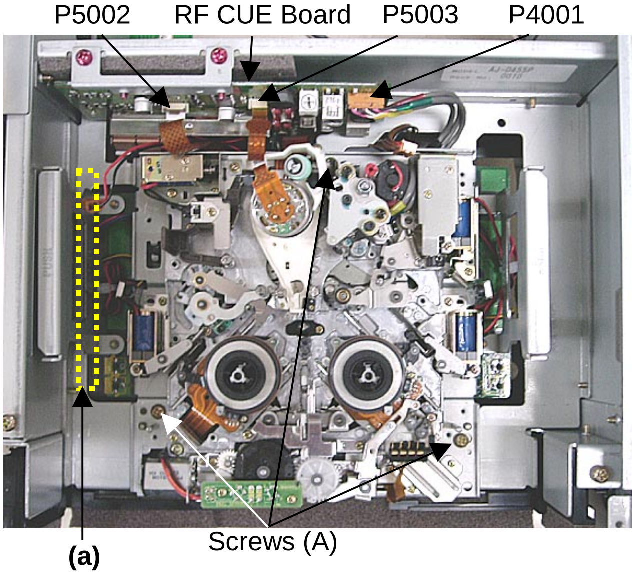

Rotate the Gear

5. Unscrew the 4 screws (A) and (B), then remove the Front Loading Unit.


Screws (B)
Screws (A)

1-5. Removal of Mechanism Unit

1. Remove the Front Loading Unit.
   (Refer to item 1-4.)
2. Disconnect 3 connectors (P4001, P5002, P5003) which are connect to RF CUE Board.
3. Unscrew the 3 screws (A) and remove the Mechanism Unit.

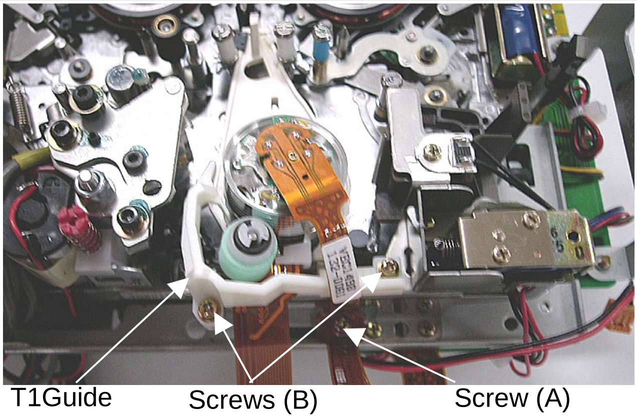

P5002
RF CUE Board
P5003
P4001
(a)
Screws (A)

Notes:

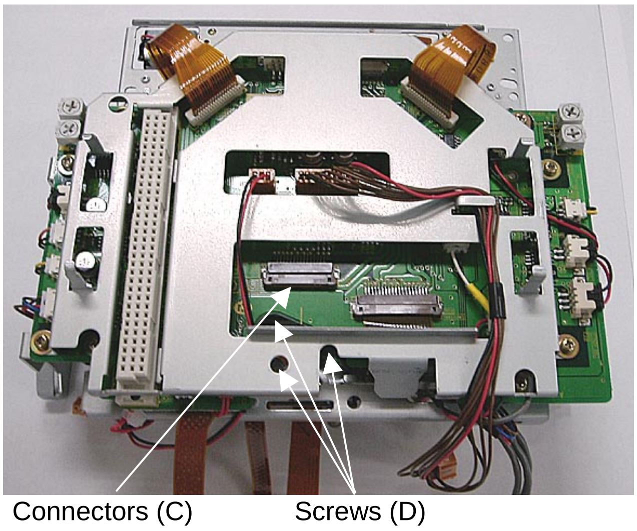
1. When remove the Mechanism Unit, the connector **(a)** which is connected to the Mother Board and Mechanism Unit is disconnected.
2. Check the connector has been connected securely.

1-6. Removal of Cylinder Unit

1. Remove the Mechanism Unit.
   Refer to item 1-5.
2. Unscrew a screw (A).
3. Unscrew the 2 screws (B) and remove the T1 Guide.

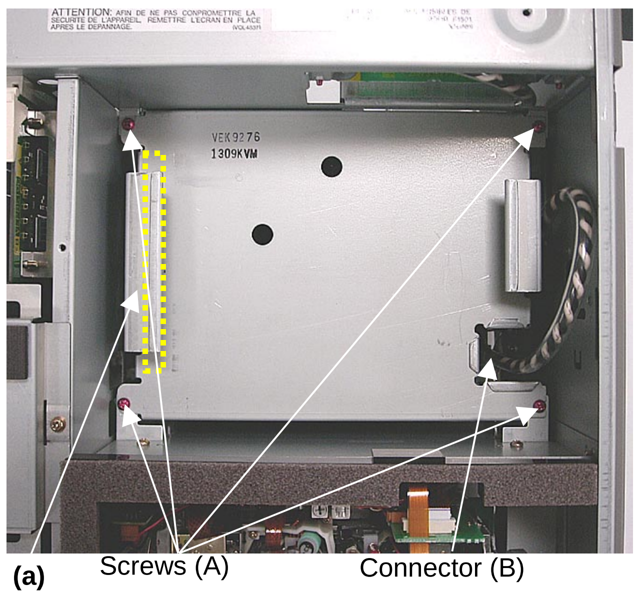


4. Disconnect a connector (C) which is connected to the Mech. I/F Board on the Mechanism bottom side.
5. Unscrew the 3 screws (D) which have spring, then remove the Cylinder Unit without touching any Mechanism parts.



1-7. Removal of Power Supply Unit

1. Unscrew the 4 screws (A) and lift-up the Power Supply Unit.
2. Disconnect a connector (B) and remove the Power Supply Unit.

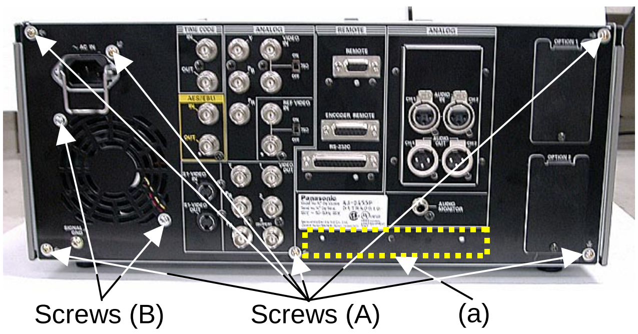


Notes:

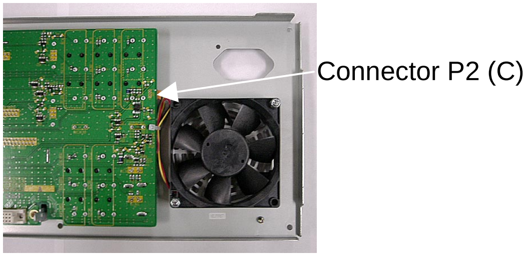
1. When remove the Power Supply Unit, the connector **(a)** which is connected to the Mother Board and Power Supply Unit is disconnected.
2. Check the connector has been connected securely.

1-8. Removal of Fan Motor

1. Unscrew the 6 screws (A) and remove the Rear Jack Panel.



2. Disconnect a connector P2 (C)
3. Unscrew the 2 screws (B) and remove the Fan Motor.



Notes:

1. When remove the Rear Jack Panel, the connector **(a)** which is connected to the Mother Board and Rear Jack Panel is disconnected.
2. Check the connector has been connected securely.

ELECTRICAL REPLACEMENT PARTS LIST (AJ-D455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP84374A	F1 AUDIO P.C.BOARD	1	(RTL)
■ E2	VEP83557A	F2 V OUT P.C.BOARD	1	(RTL)
■ E4	VEP83554A	F4 D PROC P.C.BOARD	1	(RTL)
■ E4-1	VEP83555A	CSP SUB P.C.BOARD	1	(RTL)FOR VEP83554A
■ E4-2	VSI3554A	DV UCOM P.C.BOARD	1	FOR VEP83554A
■ E5	VEP83553A	F5 V IN P.C.BOARD	1	(RTL)
■ E6	VEP86314A	F6 SYSCON P.C.BOARD	1	(RTL)
■ E7	VEP82238A	F7 SERVO P.C.BOARD	1	(RTL)
■ E8	VEP85196A	F8 RF EQ P.C.BOARD	1	(RTL)
■ E9	VEP85197A	RF CUE P.C.BOARD	1	(RTL)
■ E10	VEP80C14A	MOTHER P.C.BOARD	1	(RTL)
■ E11	VEP82239A	MECHA I/F P.C.BOARD	1	(RTL)
■ E12	VEP82240A	MECHA I/F 2 P.C.BOARD	1	(RTL)
■ E13	VEP81221A	POWER 1 P.C.BOARD	1	(RTL)
■ E14	VEP81222A	POWER 2 P.C.BOARD	1	(RTL)
■ E15	VEP80C13A	AV JACK P.C.BOARD	1	(RTL)
■ E16	VEP86315A	FRONT P.C.BOARD	1	(RTL)
■ E17	VEP80C15A	HEAD PHONE P.C.BOARD	1	(RTL)
■ E18	VEP80C16A	EJECT P.C.BOARD	1	(RTL)
■ E19	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
■ E1	VEP84374A	F1 AUDIO P.C.BOARD	1	(RTL)
C4102,03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4104-07	ECEA1HGE330	E.CAPACITOR 50V 33U	4	
C4108,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4110,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4124,25	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4131,32	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C4133-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4143-46	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4200,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4202-05	EEVHB1C220	E.CAPACITOR 16V 22U	4	
C4206	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4207,08	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4209,10	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	2	
C4211	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4212,13	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4214,15	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	2	
C4216	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4217	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4218	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4220	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4221,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4223	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4224-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4228-30	EEVHB1C220	E.CAPACITOR 16V 22U	3	
C4231	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4235-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4239,40	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4290	ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C4320,21	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4400	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4401	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4402	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4403	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4404	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C4407-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4411,12	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4417	EEVHP1C100	E.CAPACITOR 16V 10U	1	
C4419,20	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4427-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4431,32	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4506,07	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4508,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4510,11	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4512,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4514,15	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4516-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4520,21	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4522,23	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	2	
C4524-27	ECA1CHG471	C.CAPACITOR 16V 470U	4	
C4700	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4701,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4703,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4705-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C4805,06	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	2	
C4807	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C4809,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4812	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4814	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4816,17	ECHU1C104J	P.CAPACITOR 16V 0.1U	2	
C4819-21	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	3	
C4822	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4823	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4824	ECST1VY104Z	T.CAPACITOR CH 35V 0.1U	1	
C4825	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4826	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C4827	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4828	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4829-32	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4833,34	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4835	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4836	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4837	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4839,40	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4841	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4900	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4903	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4904	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4905	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4906,07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4908	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4909	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4910	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4911	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4912	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4913	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4914	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4915	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
D4100-03	MA157	DIODE	4	
D4104	MA716	DIODE	1	
D4400	MA147	DIODE	1	
D4401-03	MA142WK	DIODE	3	
D4404	MA716	DIODE	1	
D4406	MA716	DIODE	1	
D4407	MA142WK	DIODE	1	
D4800	MA716	DIODE	1	
D4900	MA152A	DIODE	1	
D4901	MA157	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL4700,01	VLF1466B223	LINE FILTER	2	
IC4100	C0ABBB000184	IC	1	
IC4101	THC4052FT	IC	1	
IC4102,03	C0ABBB000184	IC	2	
IC4104	THC4052FT	IC	1	
IC4105	C0ABBB000184	IC	1	
IC4106	THC4052FT	IC	1	
IC4107,08	C0ABBB000184	IC	2	
IC4109	THC4052FT	IC	1	
IC4110	XC62FP5002P	IC	1	
IC4111	XC62DN5002P	IC	1	
IC4200,01	NJM2100MD	IC	2	
IC4202	NVHC541MTCX	IC	1	
IC4204	C0FBZJ000003	IC	1	
IC4206	XC62FP5002P	IC	1	
IC4207	XC62FP3302P	IC	1	
IC4300	THC4052FT	IC	1	
IC4301	C0ABBB000184	IC	1	
IC4303	THC4052FT	IC	1	
IC4304	C0ABBB000184	IC	1	
IC4400	C0ABBB000184	IC	1	
IC4401	THC4052FT	IC	1	
IC4402	NJM4556AM	IC	1	
IC4403	XC62FP5002P	IC	1	
IC4404	XC62DN5002P	IC	1	
IC4407	XC62FP5002P	IC	1	
IC4408	XC62DN5002P	IC	1	
IC4410	NJM4556AM	IC	1	
IC4411	C0ABBB000184	IC	1	
IC4500	THC4052FT	IC	1	
IC4502,03	NJM4556AM	IC	2	
IC4504	THC4052FT	IC	1	
IC4506,07	NJM4556AM	IC	2	
IC4700	NVHC245MTCX	IC	1	
IC4701	EPM3256A1410	IC	1	
IC4800-02	C0ABBB000184	IC	3	
IC4803	TC4W53FU	IC	1	
IC4804	CXA1552M	IC	1	
IC4805	XC62FP5002P	IC	1	
IC4806	XC62DN5002P	IC	1	
IC4807	THC4052FT	IC	1	
IC4808	TC4W53FU	IC	1	
IC4809	NJM78L09UA	IC	1	C0CBAHC00002
IC4900	C0ABBB000184	IC	1	
IC4901	TC4W53FU	IC	1	
IC4902	C0FBZH000011	IC	1	
IC4903	XC62FP3302P	IC	1	
IC4904-06	C0ABBB000184	IC	3	
IC4907	THC4052FT	IC	1	
ID0	VVVSI3568	SOFTWARE	1	
P4001	K1KA96B00032	CONNECTOR (MALE)	1	
P4700	VJP3125B008	CONNECTOR (MALE)	1	
Q4400-03	2SB1219A-R	TRANSISTOR	4	
Q4404	2SD1328	TRANSISTOR	1	
Q4406,07	2SD1328	TRANSISTOR	2	
Q4500	2SD602A-R	TRANSISTOR	1	
Q4501	2SB710A-R	TRANSISTOR	1	
Q4502-07	2SD1328	TRANSISTOR	6	
Q4900-02	2SD1328	TRANSISTOR	3	
QR4201	UN5213	TRANSISTOR-RESISTOR	1	
QR4400,01	UN5213	TRANSISTOR-RESISTOR	2	
R4100,01	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4102,03	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4104-07	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4108-11	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	4	
R4112	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4113	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4114	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4115	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4116	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4117	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4118	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4119	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4120	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4121	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4122	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4123	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4124	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4125	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4126	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4127	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4128	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4129	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4130	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4131	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4132	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4133	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4134	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4135	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4136-41	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4142,43	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R4144,45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4146,47	ERJ3RED470	M.RESISTOR CH 1/16W 47	2	
R4148,49	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4150,51	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4152,53	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R4154,55	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4156,57	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4158,59	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4160	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4161	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4162	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4163	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4164	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4165	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4166	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4167	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4168	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4169	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4170	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4171	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4172	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4173	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4174	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4175	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4176,77	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4178,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4180-83	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4186-89	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4200	D1H84704A008	COMBI.R-R	1	
R4201	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4203,04	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4205,06	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4207,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4209,10	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R4211,12	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4213-16	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4217-20	ERJ3RBD331	M.RESISTOR CH 1/16W 330	4	
R4221	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4222,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4224	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4226	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4227	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4228,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4231,32	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4233-37	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	5	
R4238-41	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R4300,01	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4302	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4304,05	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4308	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4309	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4310	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4311	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4312	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4313	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4314	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4315	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4324	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4325	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4326	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4327	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4328	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4329	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4344-46	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	3	
R4364,65	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	2	
R4368,69	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4372,73	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4378-80	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4382,83	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4386,87	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4392,93	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4396	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4403,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4405	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4406	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4407	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4409	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4410,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4412,13	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4414	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4415	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4416	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4418	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4419	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4420	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4421	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4424,25	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4427,28	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4431	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4433	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4437	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4439	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4440	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R4442	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4443-45	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R4447	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4448	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4451	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4452	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4453	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4454	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4456,57	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4459	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4500,01	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4502,03	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4504	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4505	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4506	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4507	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4508	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4509	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4510	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4511	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4512,13	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4514	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4515	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4516	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4517	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4518	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4519	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4520	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4521,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4523	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4524,25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4526,27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4530,31	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4532,33	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4534,35	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4536-43	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4544-47	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4548,49	ERJ3RED150	M.RESISTOR CH 1/16W 15	2	
R4550-53	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4554,55	ERJ3RED150	M.RESISTOR CH 1/16W 15	2	
R4556-59	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4560-63	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4564-67	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4568-73	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R4700	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4702	D1H84734A008	COMBI.R-R	1	
R4703	D1H810240001	COMBI.R-R	1	
R4704	D1H84734A008	COMBI.R-R	1	
R4705,06	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R4707,08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4710	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4712,13	D1H84734A008	COMBI.R-R	2	
R4715-17	D1H84734A008	COMBI.R-R	3	
R4803	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4805	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4808	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4809	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4812	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4813	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R4814	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4815	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4819	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4820	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4823	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R4825	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4826	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4827	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4829	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4832	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4835	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4836	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4837	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4838	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4839	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4840	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4841	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4842-45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R4847	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4848	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4850	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4851	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4852	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4853	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4900	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4901,02	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R4903	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4904	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4905	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4906	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4907,08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4909	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4910	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R4911	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R4912	ERJ3RED124	M.RESISTOR CH 1/16W 120K	1	
R4913	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4914	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4915	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4916	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4917	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R4918	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4919	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4920	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4921	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4922	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4923	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4924	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R4925	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R4926	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4927	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1	
R4928	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R4929	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4930,31	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R4932	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4933	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4934	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4935	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R4936	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4937	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4938	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4939	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4940	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4941	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4942	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4943,44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4945	D1H84704A008	COMBI.R-R	1	
R4946	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
SW4100,01	VSS0126	SWITCH	2	
TG4100	EYF6CU	TEST POINT	1	
TG4200	EYF6CU	TEST POINT	1	
TG4500	EYF6CU	TEST POINT	1	
TG4800	EYF6CU	TEST POINT	1	
TP4200,01	EYF6CU	TEST POINT	2	
TP4300,01	EYF6CU	TEST POINT	2	
TP4400	EYF6CU	TEST POINT	1	
TP4500,01	EYF6CU	TEST POINT	2	
TP4801	EYF6CU	TEST POINT	1	
TP4901	EYF6CU	TEST POINT	1	
VR4200,01	EVMEGSA00B14	V.RESISTOR 10K	2	
VR4300,01	EVMEGSA00B14	V.RESISTOR 10K	2	
VR4800	EVMEGSA00B54	V.RESISTOR 50K	1	
VR4802	EVMEGSA00B24	V.RESISTOR 20K	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E2	VEP83557A	F2 V OUT P.C.BOARD	1	(RTL)
C104	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C105	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C106	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C107	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C150-52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C153	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C200-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C206	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C207,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C209	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C210-22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C230	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C231-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C260-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C300,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C302	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C304	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C305	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C306	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C307	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C308	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C309,10	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	2	
C311	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C313,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C316	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C318	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C320	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C321	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C322,23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C324	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C325-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C330,31	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	2	
C332-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C338	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C339	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C340,41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C342	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C400-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C404,05	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C406-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C410,11	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	2	
C412,13	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C416,17	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C418-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C422	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C423-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C431-33	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	3	
C434-36	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	3	
C440-43	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C444,45	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C446,47	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C448	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C449-53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C454	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C455	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C456	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C457	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C458	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C459	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C460	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C461	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C462	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C463	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C464-69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C470	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C471-77	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C479	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C480-83	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C486-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C490	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C491	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C492,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C494	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C499	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C500-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C508-11	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C512	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C513	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C514	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C516	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C517-29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C530-34	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	5	
C535-39	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	5	
C540	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C561,62	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C563	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C564	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C565	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C566,67	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C568	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C569	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C570,71	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C572	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C573	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C574-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C577	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C578,79	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C580-83	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C587	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C589	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C590,91	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C592,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C600,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C602	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C603,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C605-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C608	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C609	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C610-12	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C613,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C615,16	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C617,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C619	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C620,21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C623-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C626	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C627,28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C630	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C631	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C632	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C633	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C634,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C636	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C637	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C638	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C639	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C640	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C642	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C644	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C700,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C703-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C707	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C800	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
D400-02	MA3068-M	DIODE	3	
D500-04	MA3068-M	DIODE	5	
D560	MA142WK	DIODE	1	
D561	MA716	DIODE	1	
D600	MA142K	DIODE	1	
D601	MA335-R	DIODE	1	
D602	MA142K	DIODE	1	
D700	LN1251CAL	DIODE	1	
FL302,03	VLF1476	FILTER	2	J0E3504B0004
FL304	VLF1354	FILTER	1	
FL450	VLF1354	FILTER	1	
FL453	VLF1354	FILTER	1	
IC150,51	NVHC541MTCX	IC	2	
IC152	NVHC245MTCX	IC	1	
IC200	C1ZBZ0001836	IC	1	
IC201	C0CBAAB00021	IC	1	
IC203,04	NVHC541MTCX	IC	2	
IC230	UPD65944G020	IC	1	
IC260-62	NVHC541MTCX	IC	3	
IC263	74LCX240MTCX	IC	1	
IC300	XC62FP5002P	IC	1	
IC301	C0ZBZ0000505	IC	1	
IC303	XC62FP5002P	IC	1	
IC304	XC62DN5002P	IC	1	
IC305	NJM2534V	IC	1	
IC400	XC62FP5002P	IC	1	
IC401	XC62DN5002P	IC	1	
IC402	XC62FP5002P	IC	1	
IC403	XC62DN5002P	IC	1	
IC404-06	AD8055AR	IC	3	
IC450	XC62FP5002P	IC	1	
IC451	XC62DN5002P	IC	1	
IC452	XC62FP5002P	IC	1	
IC453	NJM2534V	IC	1	
IC454	XC62DN5002P	IC	1	
IC455	AD8055AR	IC	1	
IC456	XC62FP5002P	IC	1	
IC457	XC62DN5002P	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC458	XC62FP5002P	IC	1	
IC459	XC62DN5002P	IC	1	
IC460,61	AD8055AR	IC	2	
IC500	XC62FP5002P	IC	1	
IC501	XC62DN5002P	IC	1	
IC502	XC62FP5002P	IC	1	
IC503	XC62DN5002P	IC	1	
IC504	NJM2534V	IC	1	
IC505	TVHT08FT	IC	1	
IC560	NJM78L09UA	IC	1	C0CBAHC00002
IC561	AN91A12S	IC	1	
IC562	XC62FP5002P	IC	1	
IC563	XC62DN5002P	IC	1	
IC564	NJM360M	IC	1	
IC566	TVHT04FT	IC	1	
IC567	TVHT00F	IC	1	
IC568	SN74LS221NS	IC	1	
IC600	THC4053FT	IC	1	
IC601	NJM082BV	IC	1	
IC603	NJM082BV	IC	1	
IC604	XC62FP5002P	IC	1	
IC605	XC62DN5002P	IC	1	
IC606	NJM082BV	IC	1	
IC607	TVHC125FT	IC	1	
IC608	NJM360M	IC	1	
IC700	UPD65650J203	IC	1	C1ZBZ0001380
IC701,02	TVHT244FT	IC	2	
ID0	VVVSI3559A	SOFTWARE	1	
IP202	C1ZBZ0001555	IC	1	
L100,01	VLF1151A132	COIL	2	
L400,01	VLQ0163J560	COIL 56UH	2	
L402	VLQ0163J120	COIL 12UH	1	G1C120J00001
L450	VLQ0163J120	COIL 12UH	1	G1C120J00001
L500	VLQ0163J180	COIL 18UH	1	G1C180J00001
L560	VLQ0163J101	COIL 100UH	1	
L561	VLQ0163J221	COIL 220UH	1	G1C221J00003
L562	VLQ0163J680	COIL 68UH	1	
L600	VLQ0163J470	COIL 47UH	1	
L601	VLQ0163J221	COIL 220UH	1	G1C221J00003
L602-05	VLQ0163J470	COIL 47UH	4	
P1,P2	K1KA96B00032	CONNECTOR (MALE)	2	
P3	VJP3125B008	CONNECTOR (MALE)	1	
Q300	2SB709A	TRANSISTOR	1	
Q301-05	2SD601A	TRANSISTOR	5	
Q306-08	2SB709A	TRANSISTOR	3	
Q309-13	2SD601A	TRANSISTOR	5	
Q314	2SA1532-B	TRANSISTOR	1	
Q315	2SB709A	TRANSISTOR	1	
Q400-02	2SB709A	TRANSISTOR	3	
Q403-08	2SD601A	TRANSISTOR	6	
Q450,51	2SB709A	TRANSISTOR	2	
Q452-56	2SD601A	TRANSISTOR	5	
Q457,58	2SB709A	TRANSISTOR	2	
Q459,60	2SA1532-B	TRANSISTOR	2	
Q461	2SB709A	TRANSISTOR	1	
Q462	2SD601A	TRANSISTOR	1	
Q464	2SB709A	TRANSISTOR	1	
Q500	2SA1532-B	TRANSISTOR	1	
Q501-06	2SB709A	TRANSISTOR	6	
Q507-16	2SD601A	TRANSISTOR	10	
Q600	2SB709A	TRANSISTOR	1	
Q601,02	2SK608	TRANSISTOR	2	
QR200	UN5213	TRANSISTOR-RESISTOR	1	
QR300	UN5213	TRANSISTOR-RESISTOR	1	
QR500	UN5113	TRANSISTOR-RESISTOR	1	
QR501	UN5213	TRANSISTOR-RESISTOR	1	
QR700	UN5213	TRANSISTOR-RESISTOR	1	
R100	D1H810240001	COMBI.R-R	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R150,51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R152,53	D1H84734A008	COMBI.R-R	2	
R155	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R203-05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R206,07	D1H810240001	COMBI.R-R	2	
R208	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R209,10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R211,12	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R213	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R230-35	D1H833040002	COMBI.R-R	6	
R260-63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R270-75	D1H833040002	COMBI.R-R	6	
R280-82	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R283-86	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R287	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R300	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R301	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R303	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R305	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R306	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R307	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R308,09	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R312,13	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R315,16	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R317,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R319,20	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R321	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R322	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R323	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R324	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R325	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R326	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R327	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R328	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R329-32	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R333,34	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R335	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R336	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R337	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R338	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R339,40	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R341	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R342	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R343	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R344	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R345	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R346	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R347	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R348,49	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R350	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R351	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R352,53	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R354	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R355	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R358	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R359	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R362	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R363	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R400,01	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R404,05	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R406	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R407	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R408,09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R410	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R411	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R412	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R413	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R414-16	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	3	
R417-19	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3	
R420-22	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R423-25	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R426-31	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	6	
R432	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R433	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R434	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R435	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R436	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R437	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R438,39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R440	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R441	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R442-44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R445	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R446	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R447	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R448	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R450	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R451	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R452	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R453	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R454,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R456	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R457	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R459	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R460	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R461	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R462	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R463	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R464	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R465	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R466	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R467	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R469	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R470	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R471	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R472	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R473	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R474	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R475	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R477	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R478	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R479-81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R482	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R483	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R484,85	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	2	
R487	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R488	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R490	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R491	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R493-95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R500	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R501	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R502	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R503	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R504	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R505	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R507	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R509	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R510	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R511-14	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	4	
R515	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R516-20	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	5	
R521-25	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
R526-30	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	5	
R531-40	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	10	
R541	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R542	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R543	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R544	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R545	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R546	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R547	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R548	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R549	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R550	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R551,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R560	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R561	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R562	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R563	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R564	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R565,66	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R567	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R568	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R569	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R570	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R571	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R575	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R577	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R579,80	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R582	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R600	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R601	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R602	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R605	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R606	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R607	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R608	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R609	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R610,11	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R612	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R613	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R614	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R618	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R620	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R622	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R623	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R624	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R625	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R626	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R627	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R630	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R631	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R632	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R633	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R634,35	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R636	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R637	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R638	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R639	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R641	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R642	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R700-02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R703	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R705	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R800	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R801,02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R908-12	D1H833040002	COMBI.R-R	5	
R913	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG560	EYF6CU	TEST POINT	1	
TG700	EYF6CU	TEST POINT	1	
TP200	EYF6CU	TEST POINT	1	
TP560-62	EYF6CU	TEST POINT	3	
TP600	EYF6CU	TEST POINT	1	
TP701-06	EYF6CU	TEST POINT	6	
VC600	ECV1ZW20X53T	TRIMMER	1	
VR301	EVMEGSA00B12	V.RESISTOR 100	1	
VR302,03	EVMEGSA00B13	V.RESISTOR 1K	2	
VR400-02	EVMEGSA00B12	V.RESISTOR 100	3	
VR451-53	EVMEGSA00B12	V.RESISTOR 100	3	
VR455	EVMEGSA00B12	V.RESISTOR 100	1	
VR456	EVMEGSA00B13	V.RESISTOR 1K	1	
VR560	EVMEGSA00B14	V.RESISTOR 10K	1	
VR600	EVMEGSA00B14	V.RESISTOR 10K	1	
X600	VSX0197	CRYSTAL OSCILLATOR	1	
X601	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E4	VEP83554A	F4 D PROC P.C.BOARD	1	(RTL)
■ E4-1	VEP83555A	CSP SUB P.C.BOARD	1	(RTL)FOR VEP83554A
■ E4-2	VSI3554A	DV UCOM P.C.BOARD	1	FOR VEP83554A
C3021	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3022	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3025-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3029	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3032-34	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C3035	VCEA1AAP101	E.CAPACITOR 10V 100U	1	
C3036-42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3043	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3044-48	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3049-52	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C3053-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3061-63	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C3064-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3067	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3068	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3069	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3071-73	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3074	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3100	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3101,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3104	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3108	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3113,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3117	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3120,21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3121	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3122	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3123	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3124	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3125	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3127	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3177,78	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3190	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3191	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3192	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3193	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3194,95	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3196	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3197,98	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3200-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	FOR VEP83555A
C3207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3208	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3209	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3210,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3212,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	FOR VEP83555A
C3214	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3215,16	ECUX1H030CCV	C.CAPACITOR CH 50V 5P	2	F1H1H3R00021 FOR VEP83555A
C3217-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	FOR VEP83555A
C3222	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
C3223-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3226	ECUX1H090CCV	C.CAPACITOR CH 50V 9P	1	
C3228	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	1	
C3230	EEVHP1E3R3	E.CAPACITOR 25V 3.3U	1	
C3232	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3233	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C3234,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3236	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3237,38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3239	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3240,41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3242	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3243	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3244	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3245	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3246,47	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3248-52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3253	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3254	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3255	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3256	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3257	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3258	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3300,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3303	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3306	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3311,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3318	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3319	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3320-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	FOR VEP83555A
C3331-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3340-49	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3350	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3381-86	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3400,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3402	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3403	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3404	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3405	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3407	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3407,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3408	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3409	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3409,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3411	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3412	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3412	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3413	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3413	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3414-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3420	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3421,22	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3451,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3500	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3501	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3502	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3503	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3504	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3505	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83555A
C3506-02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	FOR VEP83555A
C3512-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3516	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3541-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3631-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3661-65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3701-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3708	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3751-58	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3759	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4200,01	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4202-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C4300-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C4310,11	EEVHB0J101	E.CAPACITOR 6.3V 100U	2	
C4312	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4313	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C4314,15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4316	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4400	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4401-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C4500-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C4505	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4600	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4601,02	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	2	
C4603,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D3021-23	MA701A	DIODE	3	
D3190	MA142K	DIODE	1	
IC3021	LT1086CM	IC	1	C0CBAYG00001
IC3022	XC62FP3202P	IC	1	
IC3025-28	XC62FP3202P	IC	4	
IC3029,30	C0CBAAB00021	IC	2	
IC3031,32	XC62FP2302P	IC	2	
IC3033,34	C0CBAAB00021	IC	2	
IC3035	XC62FP5002P	IC	1	
IC3036	XC62FP2302P	IC	1	
IC3037	XC62DN5002P	IC	1	
IC3071	NVHC245MTCX	IC	1	
IC3072,73	NVHC541MTCX	IC	2	
IC3100	XC62FP2502PR	IC	1	FOR VEP83555A
IC3101	C1AB00000922	IC	1	FOR VEP83555A
IC3121-27	NVHC541MTCX	IC	7	
IC3171,72	NVHC244F	IC	2	
IC3190	NJM082BV	IC	1	
IC3191	74LCX125MTCX	IC	1	
IC3200	MN2MD00006F	IC	1	FOR VEP83555A
IC3201	74LCX125MTCX	IC	1	FOR VEP83555A
IC3202,03	74AHC1GU04CK	IC	2	FOR VEP83555A
IC3221	NJM082BV	IC	1	
IC3222	BH7086KV	IC	1	C1ZBZ0001649
IC3223	74AHC1GU04CK	IC	1	
IC3224	NJM082BV	IC	1	
IC3225,26	74AHC1GU04CK	IC	2	
IC3227	TC7W241FU	IC	1	
IC3228-30	74LCX244MTCX	IC	3	
IC3231	74LCX257MTCX	IC	1	
IC3232-34	74LCX244MTCX	IC	3	
IC3300	C1AB00000922	IC	1	FOR VEP83555A
IC3301	MS51V8221-3G	IC	1	
IC3303	MS51V8221-3G	IC	1	
IC3331	C1ZBZ0001836	IC	1	
IC3381,82	NVHC244F	IC	2	
IC3383,84	C0JBAZ001728	IC	2	
IC3385	NVHC244F	IC	1	
IC3388	NVHC244F	IC	1	
IC3389	74LCX125MTCX	IC	1	
IC3400	MN2MD00006F	IC	1	FOR VEP83555A
IC3401	C1ZBZ0001836	IC	1	
IC3451,52	MS51V8221-3G	IC	2	
IC3500	XC62FP3202P	IC	1	FOR VEP83555A
IC3501	AN3742FHN-EB	IC	1	FOR VEP83555A
IC3511	UPD65943G028	IC	1	
IC3541	DS90LV048A	IC	1	
IC3542	DS90LV047A	IC	1	
IC3631	C1ZBZ0001454	IC	1	
IC3632	NVHC541MTCX	IC	1	
IC3661	C1ZBZ0001454	IC	1	
IC3702	TC7W241FU	IC	1	
IC3752,53	TC7W241FU	IC	2	
IC4200,01	PLL1700E	IC	2	
IC4202	NVHC244F	IC	1	
IC4300	C1ZBZ0001836	IC	1	
IC4302	C1BB00000529	IC	1	
IC4400,01	M5256DVP10VL	IC	2	C3BBFC000171
IC4402	C1AB00001135	IC	1	
IC4500	M5256DVP10VL	IC	1	C3BBFC000171
IC4501	UPD65949G076	IC	1	
IC4600	C0JBAB000244	IC	1	
IC4601,02	AD1893JST	IC	2	
ID0	VVVSI3555A	SOFTWARE	1	
IP3101,02	C1ZBZ0001555	IC	2	
JP3000	VJR1008	EARTH LUG	1	FOR VEP83555A
L3190,91	VLQ0319K470	COIL 47UH	2	G1C470K00013
L3222	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L3223	VLQ0163J120	COIL 12UH	1	G1C120J00001

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3224-28	VLQ0319K470	COIL 47UH	5	G1C470K00013
L3401,02	VLQ0319K470	COIL 47UH	2	G1C470K00013
L4200,01	VLQ0319K470	COIL 47UH	2	G1C470K00013
L4301-03	VLQ0319K470	COIL 47UH	3	G1C470K00013
P3000	VJS4064N160E	CONNECTOR (FEMALE)	1	K1KAG0A00006 FOR VEP83555A
P3001,02	VJP3454B096	CONNECTOR (MALE)	2	K1KA96B00021
P3101	VJP3125B008	CONNECTOR (MALE)	1	
P3381	VJP4064N160C	CONNECTOR (MALE)	1	K1KBG0A00006
P3471	VJS4106A120L	CONNECTOR (FEMALE)	1	
P3491	VJS4106A120L	CONNECTOR (FEMALE)	1	
R3001	D1H810140001	COMBI.R-R	1	
R3021	ERJ6RBD131	M.RESISTOR CH 1/10W 130	1	
R3022	ERJ6RBD201	M.RESISTOR CH 1/10W 200	1	
R3071	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3072,73	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3074,75	D1H84734A008	COMBI.R-R	2	
R3076,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3100	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3102	D1H810240001	COMBI.R-R	1	
R3103	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3104	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3105	D1H810240001	COMBI.R-R	1	
R3106	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3107	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP83555A
R3115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3116-19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	FOR VEP83555A
R3121	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3123	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3123	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3124	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3125	D1H84704A008	COMBI.R-R	1	
R3125	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3126	D1H84704A008	COMBI.R-R	1	
R3126	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3127	D1H84704A008	COMBI.R-R	1	
R3127	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3128	D1H84704A008	COMBI.R-R	1	
R3129	D1H84734A008	COMBI.R-R	1	
R3132-35	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3136-39	D1H84704A008	COMBI.R-R	4	
R3140	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3141-44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3171,72	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3173-75	D1H84704A008	COMBI.R-R	3	
R3183	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3184,85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3190	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3191	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3192-94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3195	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3196	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3197	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3198,99	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3200	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3200	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83555A
R3201	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3201	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3202	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP83555A
R3204	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP83555A
R3205	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83555A
R3206-08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	FOR VEP83555A
R3209	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3210	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3211	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3212	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3213	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3214,15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83555A
R3216	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	FOR VEP83555A
R3217	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	FOR VEP83555A
R3218,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83555A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3221	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3222	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3222	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3224	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3224	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	FOR VEP83555A
R3225	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3225	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3226	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3227	ERJ3GEYG153	M.RESISTOR CH 1/16W 15K	1	
R3227	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	FOR VEP83555A
R3228	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3228	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	FOR VEP83555A
R3229	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3230	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3231	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3232	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3234	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3237	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3239	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3240	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3241	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3242	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3243	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R3244-46	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R3247	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3248	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3249	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3250	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3251	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3252	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3253	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1	
R3254	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R3255,56	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R3257,58	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R3261-63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R3264-81	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	18	
R3283-85	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R3287	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3300	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3301,02	D1H84704A008	COMBI.R-R	2	
R3303	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3307	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3308	D1H84704A008	COMBI.R-R	1	
R3308	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3309	D1H84704A008	COMBI.R-R	1	
R3309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3310	D1H84734A008	COMBI.R-R	1	
R3310	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3311	D1H84734A008	COMBI.R-R	1	
R3314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3331,32	D1H84704A008	COMBI.R-R	2	
R3333,34	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3337	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3338	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3381	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3383	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3388,89	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3390	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3391	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3394,95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3397	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3400	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3401	D1H84704A008	COMBI.R-R	1	
R3401	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3402	D1H84704A008	COMBI.R-R	1	
R3403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3404	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83555A
R3406	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3407	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3408	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3408	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3409	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3451,52	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3471-74	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	4	
R3475-77	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3478	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R3479-85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	7	
R3491-94	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	4	
R3495-97	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3498	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R3499	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3501	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	FOR VEP83555A
R3502	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83555A
R3504	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	FOR VEP83555A
R3505	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	FOR VEP83555A
R3508	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3511	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3512	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3541-48	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	8	
R3549-56	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R3601	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3633	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3636	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3662	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3701	D1H810240001	COMBI.R-R	1	
R3706	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3707	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3709-11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R3751	D1H810240001	COMBI.R-R	1	
R3757	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3758	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3761-63	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4200,01	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4202	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4203-08	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	6	
R4302	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4303	D1H84734A008	COMBI.R-R	1	
R4700	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG3071-76	EYF6CU	TEST POINT	6	
TP3209	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3211	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3408	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3411	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3471	EYF6CU	TEST POINT	1	
TP3473	EYF6CU	TEST POINT	1	
TP3478	EYF6CU	TEST POINT	1	
TP3491	EYF6CU	TEST POINT	1	
TP3493,94	EYF6CU	TEST POINT	2	
TP3504	EYF6CU	TEST POINT	1	
TP4302,03	EYF6CU	TEST POINT	2	
X3190	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
X3200	VSX0645	CRYSTAL OSCILLATOR	1	FOR VEP83555A
X4600	VSX0519	CRYSTAL OSCILLATOR	1	H0D160500011
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
	VMX2020	P.C.BOARD POST	2	K9ZZ00000689 FOR VEP83555A
	XYN3+K6	SCREW	4	FOR VEP83555A
	VSI3554A	DV MICROCOMPUTER	2	
■ E5	VEP83553A	F5 V IN P.C.BOARD	1	(RTL)
C3001	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3003	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3005-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3008	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3010	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3012	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3013	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3015	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3017	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3018	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3019-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3026,27	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C3028,29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3030-34	EEVHB0J470	E.CAPACITOR 6.3V 47U	5	
C3035-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C3047-52	EEVHB0J470	E.CAPACITOR 6.3V 47U	6	
C3053-57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3058	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3059-61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3062	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3063	ECA1AKF390	E.CAPACITOR 10V 39U	1	
C3109	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3110,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3112,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3115	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3120	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3121-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3124	EEVHB1H4R7	E.CAPACITOR 50V 4.7U	1	
C3125	ECHU1H683JB	P.CAPACITOR 50V 0.068U	1	
C3128	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3130	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C3131	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C3132	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C3134	ECHU1C392J	P.CAPACITOR 16V 3900P	1	
C3135	ECUM1C334KBM	C.CAPACITOR CH 16V 0.33U	1	
C3136	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C3137	ECHU1C152J	P.CAPACITOR 16V 1500P	1	
C3139	ECUX1C684KBM	C.CAPACITOR CH 16V 0.68U	1	
C3140	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3141,42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3144	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C3145	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3160	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3161	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3162	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3163	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3164-68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3169	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3170	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3173	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3175-77	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3178	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3179-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C3190,91	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3192,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3200	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3201-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C3300	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3302	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3303	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3304	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3305,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3307	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3309	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3310-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3314	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3316	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3317	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3318	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3319	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3320	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3321,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3323	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3325-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3332	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3333	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3334	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3335	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3336	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3337	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3338	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3339	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C3340,41	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C3342	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3343-45	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3347	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3401	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C3402	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3403,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3405-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3409	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3410	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3412	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3415	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3416	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3417	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C3418	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3419	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3420	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3421-24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3450	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3451	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3452	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3453	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3454	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3455	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3456	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3457	ECUX1H060DCV	C.CAPACITOR CH 50V 6P	1	
C3458	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3459	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3460	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3461	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3462	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3463	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3464	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3465	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3466	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3467	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3468	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3469	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3470	ECUX1H060DCV	C.CAPACITOR CH 50V 6P	1	
C3471	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3472	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3473	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3474,75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3476	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3477-79	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3480	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3481,82	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C3501	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3502-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3505	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3506	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C3507,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3509,10	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3511	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3514	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3515	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3516,17	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3550,51	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	2	
C3552	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3553	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3554	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C3555	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3556	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3557	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3558	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3559,60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3561	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3562	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3563	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3564	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3565,66	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3567,68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3569	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3570	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3571	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3572	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3573	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3575	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3576,77	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C3578	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3579	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3580	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3600	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3601	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3602,03	EEVHB0J101	E.CAPACITOR 6.3V 100U	2	
C3604	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3605	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3606	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3607	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3630	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3631	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3632	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3633	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3634	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3638-47	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3648	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3649	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3650	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3651-53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3654	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3655	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3656	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3657	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3658,59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3660	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3662	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3663	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3664	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3700	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3701	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3702	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3703	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3704	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3705	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3706	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3707,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3712-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3722	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3723,24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3725	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3726	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3727	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3728	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3729,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3731	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3733	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3734	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3735	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3736	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3800	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3801	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3802	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3803	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3804	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3805	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3806	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3807,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3812-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3822	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3823	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3824	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3825,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3827	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3828	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3829,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3831	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3833	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3834	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3835	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3836	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3903	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3905,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3930	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3931-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C3942	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3943	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3945	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3947	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3948,49	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3950,51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3954	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3980,81	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
D3102	MA142K	DIODE	1	
D3160	MA3J14300L	DIODE	1	
D3400	MA3J14300L	DIODE	1	
D3450	MA142K	DIODE	1	
D3501	MA142WK	DIODE	1	
D3550	MA142K	DIODE	1	
D3551	MA335-R	DIODE	1	
D3630	MA3J14300L	DIODE	1	
D3700	MA3J14300L	DIODE	1	
D3800	MA3J14300L	DIODE	1	
DL3500	VLD0264	COIL	1	G2A7R9C00001
FL3101	VLF1015	FILTER	1	
FL3631	VLF1353	FILTER	1	
FL3701	VLF1355	FILTER	1	
FL3801	VLF1355	FILTER	1	
IC3001,02	NJM78L09UA	IC	2	C0CBAHC00002
IC3003	XC62FP3302P	IC	1	
IC3005	XC62FP3302P	IC	1	
IC3007-10	AN77L05M	IC	4	
IC3011,12	XC62FP5002P	IC	2	
IC3013-17	XC62DN5002P	IC	5	
IC3018	C0CBAAB00021	IC	1	
IC3019	AN77L05M	IC	1	
IC3101	THC4053FT	IC	1	
IC3103	AN3296S	IC	1	
IC3104	SN74LS221NS	IC	1	
IC3160	NJM084M	IC	1	C0ABFB000008
IC3161	NJM082BM	IC	1	C0ABEB000017
IC3162	C0FBAF000042	IC	1	
IC3163	TVHT244F	IC	1	
IC3164	74AHC1G08DCK	IC	1	
IC3200	74AHC1G08DCK	IC	1	
IC3201	YWCXD2105AQ	IC	1	
IC3300,01	THC4053FT	IC	2	
IC3400,01	SN74LS221NS	IC	2	
IC3402	TVHC04FT	IC	1	
IC3403	NJM084M	IC	1	C0ABFB000008
IC3405-07	TC4W53F	IC	3	C0JBAR000225
IC3450,51	NJM1496M	IC	2	
IC3452	NJM319M	IC	1	
IC3502	AN91A12S	IC	1	
IC3550,51	SN74LS221NS	IC	2	
IC3552	TVHC00FT	IC	1	
IC3553	TC4S584F	IC	1	
IC3554	TVHC74FT	IC	1	
IC3555	NJM082BM	IC	1	C0ABEB000017
IC3556	TC4W53F	IC	1	C0JBAR000225
IC3557	NVHC244MTCX	IC	1	
IC3630	NJM082BM	IC	1	C0ABEB000017
IC3631	C0FBAF000042	IC	1	
IC3632	THC4053FT	IC	1	
IC3633	NJM084M	IC	1	C0ABFB000008
IC3700	NJM082BM	IC	1	C0ABEB000017
IC3701	C0FBAF000042	IC	1	
IC3702	THC4053FT	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3703	NJM084M	IC	1	C0ABFB000008
IC3704	C0ZBZ0000547	IC	1	
IC3800	NJM082BM	IC	1	C0ABEB000017
IC3801	C0FBAF000042	IC	1	
IC3802	THC4053FT	IC	1	
IC3803	NJM084M	IC	1	C0ABFB000008
IC3804	C0ZBZ0000547	IC	1	
IC3900	M62370GP	IC	1	C0FBBD000082
IC3930	C1ZBZ0001836	IC	1	
IC3931,32	TVHT244F	IC	2	
IC3935	74AHC1G08DCK	IC	1	
IC3980	74LCX244MTCX	IC	1	
IC3981	NVHC244MTCX	IC	1	
ID0	VVVSI3572	SOFTWARE	1	
IP3930	C1ZBZ0001555	IC	1	
L3001-03	VLF1151A132	COIL	3	
L3102-04	VLQ0319K101	COIL 100UH	3	G1C101K00022
L3160-65	VLQ0319K101	COIL 100UH	6	G1C101K00022
L3200	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3300	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3301	VLQ0163J180	COIL 18UH	1	G1C180J00001
L3302	VLQ0163J220	COIL 22UH	1	
L3303,04	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3305	VLQ0163J180	COIL 18UH	1	G1C180J00001
L3306	VLQ0163J220	COIL 22UH	1	
L3307	VLQ0163J270	COIL 27UH	1	
L3308	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L3309	VLQ0163J5R6	COIL 5.6UH	1	
L3401,02	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3450	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3451	VLQ0163J680	COIL 68UH	1	
L3452,53	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3454	VLQ0163J680	COIL 68UH	1	
L3455	VLQ0163J470	COIL 47UH	1	
L3500	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3501	VLQ0133J471	COIL 470UH	1	G1C471J00001
L3502	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3550	VLQ0319K470	COIL 47UH	1	G1C470K00013
L3600,01	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3630-34	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3635	VLQ0133J821	COIL 820UH	1	
L3700-04	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3705	VLQ0133J821	COIL 820UH	1	
L3800-04	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3805	VLQ0133J821	COIL 820UH	1	
P3001	K1KA96B00032	CONNECTOR (MALE)	1	
P3002	VJP3125B008	CONNECTOR (MALE)	1	
Q3100	2SB709A	TRANSISTOR	1	
Q3101	2SD601A	TRANSISTOR	1	
Q3102	XN4501	TRANSISTOR-RESISTOR	1	
Q3160	2SD601A	TRANSISTOR	1	
Q3161	2SC3130	TRANSISTOR	1	
Q3162	2SB709A	TRANSISTOR	1	
Q3163-65	2SD601A	TRANSISTOR	3	
Q3166	2SK198-R	TRANSISTOR	1	
Q3300	2SD601A	TRANSISTOR	1	
Q3301	2SB709A	TRANSISTOR	1	
Q3302	2SD601A	TRANSISTOR	1	
Q3303	2SC3130	TRANSISTOR	1	
Q3304	2SD601A	TRANSISTOR	1	
Q3305	XN4601	TRANSISTOR-RESISTOR	1	
Q3306	2SD601A	TRANSISTOR	1	
Q3307	2SB709A	TRANSISTOR	1	
Q3308	2SD601A	TRANSISTOR	1	
Q3309	2SC3130	TRANSISTOR	1	
Q3310	2SD601A	TRANSISTOR	1	
Q3311	XN4601	TRANSISTOR-RESISTOR	1	
Q3312	2SD601A	TRANSISTOR	1	
Q3313	2SB709A	TRANSISTOR	1	
Q3314	2SC3130	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3315	2SD601A	TRANSISTOR	1	
Q3401	2SD601A	TRANSISTOR	1	
Q3450,51	2SD601A	TRANSISTOR	2	
Q3452	2SB709A	TRANSISTOR	1	
Q3453	2SD601A	TRANSISTOR	1	
Q3454	2SB709A	TRANSISTOR	1	
Q3455,56	2SD601A	TRANSISTOR	2	
Q3550	2SC3757-R	TRANSISTOR	1	
Q3551,52	2SA1226E34	TRANSISTOR	2	
Q3553	2SC3757-R	TRANSISTOR	1	
Q3554	2SC2295	TRANSISTOR	1	
Q3600	XN4601	TRANSISTOR-RESISTOR	1	
Q3601	2SC3757-R	TRANSISTOR	1	
Q3602	XN4601	TRANSISTOR-RESISTOR	1	
Q3603	XN1213	TRANSISTOR-RESISTOR	1	
Q3604	XN4601	TRANSISTOR-RESISTOR	1	
Q3630	2SD601A	TRANSISTOR	1	
Q3631,32	2SB709A	TRANSISTOR	2	
Q3633	2SD601A	TRANSISTOR	1	
Q3634	2SC3130	TRANSISTOR	1	
Q3635-37	2SD601A	TRANSISTOR	3	
Q3638	2SD1979	TRANSISTOR	1	
Q3639	2SB709A	TRANSISTOR	1	
Q3640	2SK198-R	TRANSISTOR	1	
Q3700	2SD601A	TRANSISTOR	1	
Q3701	2SB709A	TRANSISTOR	1	
Q3703,04	2SD601A	TRANSISTOR	2	
Q3705	2SC3130	TRANSISTOR	1	
Q3706,07	2SD601A	TRANSISTOR	2	
Q3709	2SD601A	TRANSISTOR	1	
Q3710	2SD1979	TRANSISTOR	1	
Q3711	2SB709A	TRANSISTOR	1	
Q3712	2SK198-R	TRANSISTOR	1	
Q3800	2SD601A	TRANSISTOR	1	
Q3801	2SB709A	TRANSISTOR	1	
Q3803,04	2SD601A	TRANSISTOR	2	
Q3805	2SC3130	TRANSISTOR	1	
Q3806,07	2SD601A	TRANSISTOR	2	
Q3809	2SD601A	TRANSISTOR	1	
Q3810	2SD1979	TRANSISTOR	1	
Q3811	2SB709A	TRANSISTOR	1	
Q3812	2SK198-R	TRANSISTOR	1	
QR3300	UN2213	TRANSISTOR-RESISTOR	1	
R3103	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3104	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3105	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3106	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3107	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3113	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3114	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3115	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R3117	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3118	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3119	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3120	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3121	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3124	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3127	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R3128	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3131	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3134	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R3137	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R3138	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3141	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3142	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R3145	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3146	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3149	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3150	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3153	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3154	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3160	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3161	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3162	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R3163	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3164	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3165	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3166	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3167	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3170	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3173	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3174	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3175	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3176	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3177	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3178	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3179	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3181-83	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R3185	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3186,87	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R3188	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	1	
R3189	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	1	
R3190	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R3193	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3196	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3197-99	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R3200	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3202,03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3205	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3208	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3211,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3214	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3215,16	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3217	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3218	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3219	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3220	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3221	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3222	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3223,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3300	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3301	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3304	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3305	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3306	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3307	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3309	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3313	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3314	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3315,16	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3317	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3318	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3319	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3320	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3321	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3322,23	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3325	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3326	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3327	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3328	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3329	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3330	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3331	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3332	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3333	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3337	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3338	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3339	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R3340	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3341	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3342	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3344	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3345	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3346	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3347,48	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3349	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R3350	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3351	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3352	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3353	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3354	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3355	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3356	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3357	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3358	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3359	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3360	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3363	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3364,65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3366	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3401	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3402	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3404	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3405	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3406	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3407	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3408	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3410	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3412	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3413	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3415	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3417	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3422	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3423	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3425	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3426	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3427	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3429,30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3432	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3433	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3434	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3435	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3438	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3443-46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R3449	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3450	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3451	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3452	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3453,54	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3455	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3456	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3457,58	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R3459,60	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3461	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3462	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3463	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3466	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3467	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3468	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3469	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3470,71	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3472	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3473	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3474,75	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R3476,77	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R3478	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3479	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3480	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3483	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3484	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3485,86	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3487	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3488	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3489	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3490	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3491	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3492	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3493	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3494	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3495	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3496	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3497	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3502	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3506	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3508	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3515	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R3516	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3517-19	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3541	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3547	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3550	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3551	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3552	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3553	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3554	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3555,56	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3557,58	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3559	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3561	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3562	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3563,64	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R3565	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3567	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3568	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3569	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3570	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3575,76	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R3577	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3578	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3580	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3581	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3582-86	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R3587	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3588	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3589	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3590	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3591	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3592	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3600	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3601	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3602	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3603	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3604	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3605	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R3606	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3607	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3608	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R3609	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3610	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3611	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3612	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3613	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R3614	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R3615	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R3616	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3617	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3618	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3619	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3620	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R3621	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R3622	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3623	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R3630	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3631	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3632	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3633,34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3635	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3636	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3637	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3638	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3640	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3641	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3642	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3643	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3644	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3649	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3651	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3652	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3653	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3654	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3655	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3656	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3657	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3658	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3659	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3660	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3661	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3662	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3665	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3666	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3668	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3669	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3670	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R3671	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R3672	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3673	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3674	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3675	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3676	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3677	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3678	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3679	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3680,81	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R3682	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3683	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3684	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3688	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3700	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3701	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3702	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3703	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3704-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3712	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R3713	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3714	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3716	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3717	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3718	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3719	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3723	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3726	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3727	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3728	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3729	ERJ3GEYG222	M.RESISTOR CH 1/16W 2.2K	1	
R3730	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3731	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3732,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3734	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3735	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3736	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3737	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3743	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3744	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3746,47	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3748	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3749	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3750	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3751	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3752	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3753	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3754	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3755	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3756	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3757	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3758	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3759	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3763	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3800	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3801	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3802	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3803	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3804-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3812	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R3813	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3814	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3816	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3817	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3818	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3819	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3823	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3826	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3827	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3828	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3829	ERJ3GEYG222	M.RESISTOR CH 1/16W 2.2K	1	
R3830	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3831	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3832,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3834	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3835	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3836	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3837	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3843	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3844	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3846,47	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3848	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3849	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3850	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3851	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3852	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3853	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3854	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3855	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3856	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3857	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3858	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3859	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3863	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3864,65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3900	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3901	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3902	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3903	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3904	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3905	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3906	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3930	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3931	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3932,33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3936,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3939	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3941	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3942	D1H810240001	COMBI.R-R	1	
R3943	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3944	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3945	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3946,47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3948	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3950,51	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3953,54	D1H84704A008	COMBI.R-R	2	
R3955	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3958	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3980	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3981	D1H833040002	COMBI.R-R	1	
R3982,83	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R3984,85	D1H833040002	COMBI.R-R	2	
TG3160	EYF6CU	TEST POINT	1	
TG3400	EYF6CU	TEST POINT	1	
TG3450	EYF6CU	TEST POINT	1	
TG3550	EYF6CU	TEST POINT	1	
TG3630	EYF6CU	TEST POINT	1	
TG3700	EYF6CU	TEST POINT	1	
TG3800	EYF6CU	TEST POINT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TG3930	EYF6CU	TEST POINT	1	
TP3160	EYF6CU	TEST POINT	1	
TP3400,01	EYF6CU	TEST POINT	2	
TP3450	EYF6CU	TEST POINT	1	
TP3550-52	EYF6CU	TEST POINT	3	
TP3630	EYF6CU	TEST POINT	1	
TP3700	EYF6CU	TEST POINT	1	
TP3800	EYF6CU	TEST POINT	1	
TP3930-33	EYF6CU	TEST POINT	4	
TP3980,81	EYF6CU	TEST POINT	2	
VC3500	VCV0047	TRIMMER	1	
VR3401	EVMEASA00B53	V.RESISTOR 5K	1	
VR3402	EVMEASA00B13	V.RESISTOR 1K	1	
VR3403	EVMEASA00B53	V.RESISTOR 5K	1	
VR3404	EVMEASA00B13	V.RESISTOR 1K	1	
VR3550	EVMEASA00B23	V.RESISTOR 2K	1	
X3401	VSX0338	CRYSTAL OSCILLATOR	1	H1C1435A0002
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E6	VEP86314A	F6 SYSCON P.C.BOARD	1	(RTL)
C1-C6	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C7-10	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C11,12	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C13-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C101	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C102,03	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C104-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C151	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C152-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C156-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C161	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C212	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C251,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C253	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C254-56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C258-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C264	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C302	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C303-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C310	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C311	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C312	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C313-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C351,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C353-55	EEVHB1C470	E.CAPACITOR 16V 47U	3	
C356-58	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C401-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C501-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C507	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C508,09	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	2	
C510-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C553	VCK0152	C.CAPACITOR	1	F1L1C1060016
C559	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C560	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C561	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C562	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C563,64	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C565	VCK0152	C.CAPACITOR	1	F1L1C1060016
C566-68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C569	VCK0152	C.CAPACITOR	1	F1L1C1060016

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C570	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C573	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C575	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C576	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C577	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C578	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C579	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C580	VCK0152	C.CAPACITOR	1	F1L1C1060016
C581,82	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C587,88	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C589	VCK0152	C.CAPACITOR	1	F1L1C1060016
C651-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C701-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	28	
D1	MA716	DIODE	1	
D252-56	MA716	DIODE	5	
D301	MA147	DIODE	1	
D302	MA716	DIODE	1	
D553,54	MA147	DIODE	2	
D701-09	MA716	DIODE	9	
IC1	XC62FP5002P	IC	1	
IC2	XC62DN5002P	IC	1	
IC3	NJM78L09UA	IC	1	C0CBAHC00002
IC4	NJM79L09UA	IC	1	C0CABBF00001
IC101	HD64180ZRFS8	IC	1	C2GBA0000021
IC102	TVHT541FT	IC	1	
IC103	TVHC32FT	IC	1	
IC104 02	M27C100115F1	IC	1	
IC104	VSI3557A	IC	1	
IC105	CY7C19920ZC	IC	1	
IC106	IDT71321L55F	IC	1	C3HBCC000002
IC107	NVHC138MTCX	IC	1	
IC108	TVHC00FT	IC	1	
IC151	Z84C4310FEC	IC	1	C2ZBZ0000312
IC152	TVHC161FT	IC	1	
IC153	ADM202JRN	IC	1	C0ZBZ0000171
IC156	SN75C1168NS	IC	1	
IC203	TVHC04FT	IC	1	
IC251	TVHC32FT	IC	1	
IC252	TVHC74FT	IC	1	
IC253,54	T74HC191AF	IC	2	
IC255	TVHC574FT	IC	1	
IC256	TC74HC4094F	IC	1	C0JBAQ000104
IC257	TC74HC4050AF	IC	1	
IC258	TVHC574FT	IC	1	
IC259	TVHT574FT	IC	1	
IC260	74AHC1G08DCK	IC	1	
IC261	TVHC123FT	IC	1	
IC301	M37702S4AFP	IC	1	C2CBYF000003
IC302	M27C400110F1	IC	1	
IC302	VSI3561A	IC	1	
IC303	TVHC32FT	IC	1	
IC304	TVHC00FT	IC	1	
IC305	TVHC32FT	IC	1	
IC306	NVHC138MTCX	IC	1	
IC307	TVHC573FT	IC	1	
IC308	TVHC04FT	IC	1	
IC309	TL7705CPSB	IC	1	
IC351	IDT71321L55F	IC	1	C3HBCC000002
IC352	CY7C19920ZC	IC	1	
IC353	STK12C68S45	IC	1	
IC354	NVHC245MTCX	IC	1	
IC401	IDT71321L55F	IC	1	C3HBCC000002
IC402,03	NVHC541MTCX	IC	2	
IC404	UPD6456T611Y	IC	1	C1AB00000555
IC501	M37702S4AFP	IC	1	C2CBYF000003
IC502	M27C200115F1	IC	1	
IC502	VSI3563B	IC	1	
IC503	CY7C19920ZC	IC	1	
IC504	TVHC573FT	IC	1	
IC505,06	NVHC138MTCX	IC	2	
IC507,08	TVHC32FT	IC	2	
IC509	TVHC00FT	IC	1	
IC551	MN51040VPI	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC552	TVHC32FT	IC	1	
IC553	TVHC574FT	IC	1	
IC554	TC4W53FU	IC	1	
IC555	C0ABBB000032	IC	1	
IC558	C0BBBA000044	IC	1	
IC559	C0ABBB000196	IC	1	
IC651	TVHC32FT	IC	1	
IC652	TVHC08FT	IC	1	
IC654,55	TVHC74FT	IC	2	
IC656	NVHC541MTCX	IC	1	
IC658	NVHC541MTCX	IC	1	
IC660	TLVX4245FS	IC	1	
IC661	NVHC541MTCX	IC	1	
IC663	NVHC245MTCX	IC	1	
IC701,02	NJM084V	IC	2	
IC703,04	NVHC541MTCX	IC	2	
IC705	TVHT541FT	IC	1	
IC706	TVHT574FT	IC	1	
IC707	TVHC574FT	IC	1	
IC708	TVHC14FT	IC	1	
IC709	TVHT04FT	IC	1	
IC710	TVHC126FT	IC	1	
IS104	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
IS302	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
IS502	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
L1,L2	VLF1151A132	COIL	2	
L501	VLQ0163J470	COIL 47UH	1	
P1,P2	K1KA96B00032	CONNECTOR (MALE)	2	
QR301	UN5214	TRANSISTOR-RESISTOR	1	
R102-04	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R105,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R107	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R110	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R112,13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R117	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R151	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R153	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R156	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R161	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R162	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R163	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R164	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R165,66	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R167	D1H84734A008	COMBI.R-R	1	
R168,69	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R177	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R180	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R201,02	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R205	D1H84734A008	COMBI.R-R	1	
R251,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R253	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R254	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R256,57	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R258	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R259,60	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R266	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R268,69	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R271,72	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R273	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R274	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R301-04	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R305	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R306-08	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R309	D1H84704A008	COMBI.R-R	1	
R310	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R311	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R312	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R314	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R316	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R317	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R318	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R319	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R351	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R401,02	D1H84704A008	COMBI.R-R	2	
R403	D1H84734A008	COMBI.R-R	1	
R404	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R405	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R406,07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R408	D1H84704A008	COMBI.R-R	1	
R501	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R502	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R503	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R504	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R507	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R509,10	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R511	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R514	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R559	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R562	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R567	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R570	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R571	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R573	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R574,75	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R576	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R577	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R578,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R580	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R581	D1H84734A008	COMBI.R-R	1	
R583,84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R585	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R586,87	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R588	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R589	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R590	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R591	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	1	
R592	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R593	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R594	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R597,98	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R603	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R610	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R611	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R612	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R614	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R651	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R653	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R654,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R656-59	D1H84734A008	COMBI.R-R	4	
R660-62	D1H84704A008	COMBI.R-R	3	
R664-67	D1H84704A008	COMBI.R-R	4	
R701-06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R707-12	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	6	
R713	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R714	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R715-20	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	6	
R721	D1H84734A008	COMBI.R-R	1	
R722-27	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R728-30	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R731-33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R734,35	D1H84734A008	COMBI.R-R	2	
R736,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R738,39	D1H84734A008	COMBI.R-R	2	
R740,41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R742-44	D1H84704A008	COMBI.R-R	3	
SW301	VSS0367-02B	SWITCH	1	
TG301	EYF6CU	TEST POINT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TG501	EYF6CU	TEST POINT	1	
X101	VSX0641	CRYSTAL OSCILLATOR	1	
X301	VSX0641	CRYSTAL OSCILLATOR	1	
X501	VSX0654	CRYSTAL OSCILLATOR	1	H0J160500017
X551	VSX1001	CRYSTAL OSCILLATOR	1	H2C143500002
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E7	VEP82238A	F7 SERVO P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6,C7	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C8,C9	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C10,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C12	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C13,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C15,16	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	2	
C17	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C18	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C19	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C20,21	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C22-26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C27	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C60	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C61-64	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C70-73	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C74-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C150,51	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	2	
C152,53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C154	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C155	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C156,57	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C158,59	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C160	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C163	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C165,66	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C167-71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C201	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C202,03	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C204-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C215,16	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C217,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C219,20	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C221-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C301-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C350	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C351,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C353	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C354,55	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	2	
C356-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C361,62	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C364-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C401,02	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	2	
C403,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C405,06	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C407,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C409,10	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C411	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C412-24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C425	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C426,27	EEVHB1C470	E.CAPACITOR 16V 47U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C428	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C429,30	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C431	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C432	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C450	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C451	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C452	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C453	EEUFC1V101	E.CAPACITOR 35V 100U	1	
C454,55	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C456,57	EEUFC1V101	E.CAPACITOR 35V 100U	2	
C458,59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C500	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C501	EEUFC1V101	E.CAPACITOR 35V 100U	1	
C502,03	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C504	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C505,06	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C507,08	EEUFC1V101	E.CAPACITOR 35V 100U	2	
C509-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C512	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C513	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C514	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C515	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C516	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C517-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C550,51	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C552-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C555	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C556	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C557	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C558,59	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C560	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C561	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C562	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C563	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C564	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C565	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C566	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C567	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C568	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C569	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C570	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C571	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C572	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C573	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C574	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C575	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C576,77	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C578,79	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C580,81	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C582	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C583	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C584	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C585	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C586,87	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C588,89	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C590,91	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C592,93	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C594,95	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C596,97	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C598,99	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C600,01	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C602,03	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C604,05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C606-09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C610-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C614,15	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C616,17	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C618-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C651-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C657,58	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	2	
C659	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C660	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C661	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C662	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C663-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C667	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C668	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C669-71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
D1-D4	MA8075-H	DIODE	4	
D5,D6	MA142K	DIODE	2	
D7-D9	MA147	DIODE	3	
D201-03	MA147	DIODE	3	
D350-52	LN1251CAL	DIODE	3	
D353,54	MA147	DIODE	2	
D355,56	MA142K	DIODE	2	
D401,02	MA142K	DIODE	2	
D403-06	MA716	DIODE	4	
D407	MA147	DIODE	1	
D450,51	MA728	DIODE	2	
D452,53	MA736	DIODE	2	
D500,01	MA728	DIODE	2	
D502,03	MA736	DIODE	2	
D504	MA142K	DIODE	1	
D550,51	MA142K	DIODE	2	
D552-63	MA738	DIODE	12	
D564,65	MA147	DIODE	2	
D605,06	MA738	DIODE	2	
D609-12	MA738	DIODE	4	
D651	MA142K	DIODE	1	
D652-55	MA142WK	DIODE	4	
D656	MA147	DIODE	1	
D657	MA142WK	DIODE	1	
D658	MA142WA	DIODE	1	
D659	MA8051-M	DIODE	1	
D660	MA8082-H	DIODE	1	
D661	MA142WK	DIODE	1	
D662	MA142K	DIODE	1	
D663	MA8033-H	DIODE	1	
D664	MA8039-H	DIODE	1	
D665	MA8075-M	DIODE	1	
D666	MA738	DIODE	1	
D667	MA142K	DIODE	1	
D668-70	MA738	DIODE	3	
IC1	TVHC14FT	IC	1	
IC2	NJM4558M	IC	1	
IC3	TC4052BFN	IC	1	
IC5	NJM4558M	IC	1	
IC7	NJM4558M	IC	1	
IC8	TC4052BFN	IC	1	
IC61,62	C0ABBB000184	IC	2	
IC63	NJM2901M	IC	1	C0BBCA000008
IC103	TVHC14FT	IC	1	
IC151	NJM4558M	IC	1	
IC152	C0ABBB000184	IC	1	
IC153	NJM2903M	IC	1	
IC154	TVHC14FT	IC	1	
IC155	NJM4558M	IC	1	
IC156	NJM2903M	IC	1	
IC157	C0ABBB000184	IC	1	
IC202,03	S80829ANUP	IC	2	
IC204	T74VHCU04F	IC	1	
IC206,07	T74VHC541F	IC	2	
IC301	T74VHC541F	IC	1	
IC351,52	TVHT541FEL	IC	2	
IC353	74LCX245SJX	IC	1	
IC354	M62370GP	IC	1	C0FBBD000082
IC355,56	NJM4558M	IC	2	
IC357	NJM2904V	IC	1	
IC401	NJM2904V	IC	1	
IC402,03	NJM78L09UA	IC	2	C0CBAHC00002
IC404	XC62FP3302P	IC	1	
IC405	XC62FP5002P	IC	1	
IC406,07	NJM79L09UA	IC	2	C0CABBF00001
IC408	XC62DN5002P	IC	1	
IC501	NJM2903M	IC	1	
IC502	C0ABBB000184	IC	1	
IC503	TL1451CNS	IC	1	
IC551	NJM2903M	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC552	NJM4558M	IC	1	
IC553,54	AN3834K	IC	2	
IC555	NJM4558M	IC	1	
IC600,01	AN3890FBS	IC	2	
IC650	TVHT541FT	IC	1	
IC651	C0JBAM000059	IC	1	
IC652	NJM2904V	IC	1	
IC653	TVHC123FT	IC	1	
IC654	TVHT541FT	IC	1	
IC655,56	M54649L	IC	2	C0GAH0000001
IC658	NJM2903M	IC	1	
ID0	VVVSI3567	SOFTWARE	1	
ID201	VVVSI3565A	SOFTWARE	1	
IP201	MN1030F04K	IC	1	
IP300	EPM3256A1410	IC	1	
L401,02	VLF1151A132	COIL	2	
L450	VLQ0407120M	COIL 12UH	1	G0A120HA0007
L451,52	VLQ0504331K	COIL 330UH	2	G0A331F00001
L500,01	VLQ0504331K	COIL 330UH	2	G0A331F00001
P202	VJS3791B020	CONNECTOR (FEMALE)	1	
P300	VJP3125B008	CONNECTOR (MALE)	1	
P700,01	K1KA96B00032	CONNECTOR (MALE)	2	
Q1	2SD601A	TRANSISTOR	1	
Q2,Q3	2SB709A	TRANSISTOR	2	
Q4	2SD601A	TRANSISTOR	1	
Q5	2SB709A	TRANSISTOR	1	
Q6	2SD601A	TRANSISTOR	1	
Q401,02	2SD601A	TRANSISTOR	2	
Q450,51	2SB1073	TRANSISTOR	2	
Q500,01	2SB1174-Q	TRANSISTOR	2	
Q600	2SB1073	TRANSISTOR	1	
Q601	2SD1119	TRANSISTOR	1	
Q602	2SB1073	TRANSISTOR	1	
Q603	2SD1119	TRANSISTOR	1	
Q604	PU3210	TRANSISTOR	1	
Q605	PU3110	TRANSISTOR	1	
Q606	2SB1073	TRANSISTOR	1	
Q607	2SD1119	TRANSISTOR	1	
Q650	2SD601A	TRANSISTOR	1	
Q651	2SB710A	TRANSISTOR	1	
Q652	2SB936A-Q	TRANSISTOR	1	
Q653,54	2SB766	TRANSISTOR	2	
QR1-R5	UN5213	TRANSISTOR-RESISTOR	5	
QR6	UN5113	TRANSISTOR-RESISTOR	1	
QR7	UN5215	TRANSISTOR-RESISTOR	1	
QR8	UN5115	TRANSISTOR-RESISTOR	1	
QR350-52	UN5213	TRANSISTOR-RESISTOR	3	
QR500,01	UN5111	TRANSISTOR-RESISTOR	2	
QR550-53	UN5215	TRANSISTOR-RESISTOR	4	
QR600	UN5213	TRANSISTOR-RESISTOR	1	
QR601	UN5217	TRANSISTOR-RESISTOR	1	
QR602	UN5211	TRANSISTOR-RESISTOR	1	
QR651	UN5213	TRANSISTOR-RESISTOR	1	
QR652	UN5113	TRANSISTOR-RESISTOR	1	
QR653,54	UN5213	TRANSISTOR-RESISTOR	2	
QR655,56	UN5214	TRANSISTOR-RESISTOR	2	
QR657	UN5213	TRANSISTOR-RESISTOR	1	
QR658	UN5113	TRANSISTOR-RESISTOR	1	
QR659-63	UN5214	TRANSISTOR-RESISTOR	5	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R7	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R8	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R9	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R10	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R12	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R13	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R14	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R15	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R16	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R18	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R19	ERJ3GEYJ303	M.RESISTOR CH 1/16W 30K	1	
R20	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R21	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R22	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R23	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R24,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R26	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R27	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R29,30	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R31	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R32	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R33	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R34-36	ERJ3RBD471	M.RESISTOR CH 1/16W 470	3	
R37	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R38,39	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	2	
R40,41	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R42	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R43	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R44,45	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R46	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R47	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R48	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R49	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R60	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R61	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R62	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R63	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R64	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R65	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R66	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R67	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R68	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R69	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R70	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R71	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R72	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R73	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R74	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R75	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R76-79	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	4	
R80,81	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R82-85	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R86-89	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R90-93	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	4	
R94-97	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	4	
R98	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R99	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R100,01	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R102,03	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R104	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R105	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R106-09	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	4	
R150	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R151	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R152	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R153	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R154,55	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R156	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R157	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R158	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R159	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R160,61	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R162	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R163	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R164,65	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R166	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R167	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R168,69	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R170	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R171	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R172	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R173	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R174,75	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R176,77	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R178,79	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R180,81	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R182,83	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R184,85	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R186,87	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	2	
R188,89	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R190,91	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R192,93	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R194,95	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	D1H84704A008	COMBI.R-R	2	
R203	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R204	D1H84734A008	COMBI.R-R	1	
R206	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R207	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R209,10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R211	D1H810140001	COMBI.R-R	1	
R212	ERJ3GEYJ120	M.RESISTOR CH 1/16W 12	1	
R213	D1H84734A008	COMBI.R-R	1	
R214,15	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R216	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R218	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R220	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R221	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R222	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R224-27	D1H84704A008	COMBI.R-R	4	
R228	D1H84734A008	COMBI.R-R	1	
R229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R230	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R233-35	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R236-38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R302	D1H810240001	COMBI.R-R	1	
R303	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R305,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R307	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R308	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R309,10	D1H84704A008	COMBI.R-R	2	
R311	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R351-53	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R354-59	D1H84704A008	COMBI.R-R	6	
R360-62	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	3	
R363	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R364,65	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R366,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R368,69	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	2	
R370,71	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	2	
R372	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R373	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R374,75	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R376	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R377	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R378-80	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R381	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R382	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R383	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R384	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R385	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R386	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R401,02	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R404	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R405,06	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R407	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R408-11	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R412,13	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R450,51	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R452,53	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R454,55	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R457	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R500,01	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R502,03	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R504,05	ERJ12YJ471	M.RESISTOR CH 1/2W 470	2	
R506	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R507	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R508	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R509	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R510	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R511	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R512	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R513	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R514,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R516	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R517	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R518	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R519,20	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R521	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R522	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R523	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R524,25	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R526,27	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	2	
R528	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R529	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R530	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R531,32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R533	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R535	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R551-53	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R554	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R555	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R556	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R558,59	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	2	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R562,63	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R564	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R565	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R566,67	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R568	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	1	
R569	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R570	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	1	
R571	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R572,73	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R574,75	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R576	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R577	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R578	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R579	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R580-83	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R584,85	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R586,87	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R588,89	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R600	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R601,02	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R603	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R605,06	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R607,08	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R609,10	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R611,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R613-18	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	6	
R619	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R651-53	D1H84734A008	COMBI.R-R	3	
R654	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R655	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R656	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R657-60	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R661	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R662	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R663	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R664	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R666	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R667	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R668	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R669,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R671-74	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R675	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R676,77	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R678	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R679,80	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R681-83	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R684	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R685	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R686	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	1	
R687	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R688	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R689,90	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	2	
R691,92	ERJ8GEYJ181	M.RESISTOR CH 1/8W 180	2	
R693	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R694	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R695	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R696	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R697	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R698	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
TG1,G2	EYF6CU	TEST POINT	2	
TG4	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP30,31	EYF6CU	TEST POINT	2	
TP80-83	EYF6CU	TEST POINT	4	
TP120-23	EYF6CU	TEST POINT	4	
TP160-63	EYF6CU	TEST POINT	4	
TP201	EYF6CU	TEST POINT	1	
TP230-33	EYF6CU	TEST POINT	4	
TP280-82	EYF6CU	TEST POINT	3	
TP300-02	EYF6CU	TEST POINT	3	
TP305	EYF6CU	TEST POINT	1	
TP320	EYF6CU	TEST POINT	1	
TP400,01	EYF6CU	TEST POINT	2	
TP450,51	EYF6CU	TEST POINT	2	
TP651,52	EYF6CU	TEST POINT	2	
X201	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E8	VEP85196A	F8 RF EQ P.C.BOARD	1	(RTL)
C5001-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5021-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C5051-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5101,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5103,04	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5105,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5107,08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5109	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5111-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5114	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5115-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5118,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5120	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5121,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5123,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5125,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5127	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5129	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5130	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5131	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5133	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C5134-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5138	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5139,40	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C5141	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5142	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5143	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5145,46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5147,48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5149,50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5151	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5152-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5155	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5156	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C5157	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C5158	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5160,61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5162,63	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C5201,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5203	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5204	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C5205	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5206	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C5207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5208	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C5209,10	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C5211,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5213,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5215-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5218	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5219,20	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5222	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	1	
C5301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5302	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C5303	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5304-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5312	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5313	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5316	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5317-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5320	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5321,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5324	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5325	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C5326-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C5351-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C5401,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5403,04	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5405,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5407,08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5409	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5411-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5414	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5415-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5418,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5420	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C5421,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5423,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5425,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5427	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5429	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5430	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5431	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5433	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C5434-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5438	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5439,40	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C5441	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5442	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5443	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5445,46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5447,48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5449,50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5451	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5452-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5455	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5456	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C5457	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C5458	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5460,61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5462,63	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C5601	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5602	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C5603	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5604-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5612	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5613	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5615	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5616	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5617-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5620	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5621	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5624	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5625	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C5626-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C5702-05	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C5707-10	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C5712	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C5713-15	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C5717	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5721-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	26	
D5051	MA142K	DIODE	1	
D5701,02	MA701A	DIODE	2	
D5703-05	MA716	DIODE	3	
IC5001	DS90LV048A	IC	1	
IC5002	74LCX74MTCX	IC	1	
IC5003	74LCX244MTCX	IC	1	
IC5004	DS90LV047A	IC	1	
IC5005	M62370GP	IC	1	C0FBBD000082
IC5006-08	THC4053FT	IC	3	
IC5009	NJM084V	IC	1	
IC5010	NJM082BV	IC	1	
IC5011	TC4S30F	IC	1	C0JBAZ000429
IC5012	74AHC1G32DCK	IC	1	
IC5013	74AHC1G00DCK	IC	1	
IC5014	TC7W125FU	IC	1	
IC5101	MC1495D	IC	1	
IC5102-04	UPC1663G	IC	3	C1CB00000329
IC5105	MN673796	IC	1	
IC5106	NJM082BV	IC	1	
IC5107	DS90LV047A	IC	1	
IC5108	74LCX574MTCX	IC	1	
IC5110	UPD65946GY00	IC	1	
IC5201,02	TC4S30F	IC	2	C0JBAZ000429
IC5203	NJM1496V	IC	1	
IC5204	NJM082BV	IC	1	
IC5401	MC1495D	IC	1	
IC5402-04	UPC1663G	IC	3	C1CB00000329
IC5405	MN673796	IC	1	
IC5406	NJM082BV	IC	1	
IC5408	74LCX574MTCX	IC	1	
IC5701-03	XC62FP5002P	IC	3	
IC5704-06	XC62DN5002P	IC	3	
IC5707-09	XC62FP3002P	IC	3	
L5101	VLQ0163MR27	COIL 0.27UH	1	
L5102	VLQ0163JR47	COIL 0.47UH	1	G1CR47J00004
L5103,04	VLQ0163J101	COIL 100UH	2	
L5105,06	VLQ0163JR22	COIL 0.22UH	2	G1CR22J00002
L5107	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L5201,02	VLQ0163J4R7	COIL 4.7UH	2	G1C4R7J00004
L5203,04	VLQ0163JR47	COIL 0.47UH	2	G1CR47J00004
L5401	VLQ0163MR27	COIL 0.27UH	1	
L5402	VLQ0163JR47	COIL 0.47UH	1	G1CR47J00004

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L5403,04	VLQ0163J101	COIL 100UH	2	
L5405,06	VLQ0163JR22	COIL 0.22UH	2	G1CR22J00002
L5407	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L5701-04	VLF1151A132	COIL	4	
P5001	K1KA96B00032	CONNECTOR (MALE)	1	
Q5101	XN5531	TRANSISTOR-RESISTOR	1	
Q5102,03	2SD1979	TRANSISTOR	2	
Q5104,05	XN5531	TRANSISTOR-RESISTOR	2	
Q5106,07	2SK508K512	TRANSISTOR	2	
Q5108-10	2SC3930	TRANSISTOR	3	
Q5111	XN5531	TRANSISTOR-RESISTOR	1	
Q5112-15	2SC3930	TRANSISTOR	4	
Q5201	XN5531	TRANSISTOR-RESISTOR	1	
Q5202,03	2SD1979	TRANSISTOR	2	
Q5204	2SC3935	TRANSISTOR	1	
Q5205	2SC3930	TRANSISTOR	1	
Q5301,02	2SA1532	TRANSISTOR	2	
Q5303	2SC3930	TRANSISTOR	1	
Q5401	XN5531	TRANSISTOR-RESISTOR	1	
Q5402,03	2SD1979	TRANSISTOR	2	
Q5404,05	XN5531	TRANSISTOR-RESISTOR	2	
Q5406,07	2SK508K512	TRANSISTOR	2	
Q5408-10	2SC3930	TRANSISTOR	3	
Q5411	XN5531	TRANSISTOR-RESISTOR	1	
Q5412-15	2SC3930	TRANSISTOR	4	
Q5601,02	2SA1532	TRANSISTOR	2	
Q5603	2SC3930	TRANSISTOR	1	
QR5051	UN5211	TRANSISTOR-RESISTOR	1	
QR5052	UN5111	TRANSISTOR-RESISTOR	1	
QR5201	UN5111	TRANSISTOR-RESISTOR	1	
R5001,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5003-05	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5006,07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5008	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5009	D1H84704A008	COMBI.R-R	1	
R5021,22	D1H84734A008	COMBI.R-R	2	
R5023,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5025	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5026	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5027,28	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R5029-31	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	3	
R5032-35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R5036	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5037	D1H810140001	COMBI.R-R	1	
R5038	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5039,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5041-43	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R5044	D1H810140001	COMBI.R-R	1	
R5051	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5052	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5053	D1H84734A008	COMBI.R-R	1	
R5054,55	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5101	D1H84704A008	COMBI.R-R	1	
R5102,03	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5104,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5106,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5108	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5109,10	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5111,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5113,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5115,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5117,18	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5119,20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5121	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5122	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5123	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5124	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5125	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5126	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5127	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5128,29	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5130,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5132,33	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5135,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5137,38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5139,40	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5141,42	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5143,44	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R5145	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5146	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5147	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5148	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5149	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5150,51	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5152	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5153	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5154	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5155	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5156	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5157	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5158-60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5161	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5162,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5164,65	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5166	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5167,68	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5169,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5171,72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5173,74	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5175,76	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5177	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5178	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5179	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5180	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5181	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5182	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5183,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5185	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5186,87	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5188	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5189,90	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5191,92	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5193	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5194,95	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5196	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5197	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5198	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5201,02	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5203,04	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5205,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5207,08	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R5209	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5210,11	ERJ3RED470	M.RESISTOR CH 1/16W 47	2	
R5212	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5213	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5214,15	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5216,17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5218	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5220	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5221	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5222	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R5223-26	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5227	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5228	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5229	D1H84704A008	COMBI.R-R	1	
R5230	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5231	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R5232	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R5233	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5234	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5235	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5236	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5301,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5303	D1H84734A008	COMBI.R-R	1	
R5304,05	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5309,10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5312	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5313	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5314	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5315,16	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R5317	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5318	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5319	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5320	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R5321	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5322	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5323	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5324	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5325	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5326	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5327	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5328	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5329	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5330	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5331	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5332	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5333	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5334	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5335	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5336	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5337,38	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5340-43	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5344-47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5357	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5358	D1H84704A008	COMBI.R-R	1	
R5359-62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5363	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5364	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R5365	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R5366	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R5367	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5368	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5369	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R5370	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R5371	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R5372	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5373	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5381-90	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	10	
R5393	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5397	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5401	D1H84704A008	COMBI.R-R	1	
R5402,03	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5404,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5406,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5408	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5409,10	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5411,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5413,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5415,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5417,18	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5419,20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5421	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5422	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5423	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5424	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5425	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5426	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5427	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5428,29	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R5430,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5432,33	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5435,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5437,38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5439,40	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5441,42	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5443,44	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R5445	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5446	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5447	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5448	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5449	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5450,51	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5452	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5453	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5454	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5456	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5457	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5458-60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5461	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5462,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5464,65	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5466	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5467,68	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5469,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5471,72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5473,74	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5475,76	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5477	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5478	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5479	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5480	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5481	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5482	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5483,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5485	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5486,87	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5488	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5489,90	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5491,92	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5493	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5494,95	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5496	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5497	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5498	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5609,10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5612	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5613	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5614	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5615,16	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R5617	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5618	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5619	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5620	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R5621	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5622	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5623	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5624	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5625	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5626	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5627	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5628	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5629	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5630	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5631	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5632	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5633	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5634	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5635	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5636	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5637,38	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5639	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5641,42	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5644,45	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5657,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5659,60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5663	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5664	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R5665	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R5666	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R5667	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5668	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5669	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R5670	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5671	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R5672	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5673	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5674,75	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5676	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5701-05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R5706	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5711-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5715-19	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R5720-27	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
RY5051	VSY2176	RELAY	1	K6B2CDA00045
TG5001-04	EYF6CU	TEST POINT	4	
TP5001-03	EYF6CU	TEST POINT	3	
TP5005-10	EYF6CU	TEST POINT	6	
TP5015,16	EYF6CU	TEST POINT	2	
TP5018-20	EYF6CU	TEST POINT	3	
		MISCELLANEOUS		
	VML2144	CARD PULLER	1	
	VSC4609	SHIELD CASE	2	
	VWZ0212	THERMAL CONDUCTIVE TUBE	2	
	XYN3+F8	SCREW	2	
	VMP6465	HEAT SINK HOLDER ANGLE B	1	
■ E9	VEP85197A	RF CUE P.C.BOARD	1	(RTL)
C4002	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4004	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4006	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4008	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4010,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4012	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4013	ECHU1C822JB	P.CAPACITOR 16V 8200P	1	
C4014	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4015,16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4018	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C4020	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4021,22	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4024	EEVHP1C100	E.CAPACITOR 16V 10U	1	
C4025	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4026	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4028	VCC0030	C.CAPACITOR	1	
C4030,31	ECHS1682JZ	P.CAPACITOR 100V 6800P	2	
C4034-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C4037	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4038	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4039	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4040	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4041	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C4042	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4043	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4044	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C4047,48	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C4049	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4050	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C4051,52	ECHS1682JZ	P.CAPACITOR 100V 6800P	2	
C4053	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4055	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C5001-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5004	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5006	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5007	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5008	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5012,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5014,15	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C5016,17	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5018-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5101	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5102	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5103-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5107,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5109,10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5111	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5112	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5113-16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5117,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5119-22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5123	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5124-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5131	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5133-35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5161	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5163-65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5201-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5205	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5206	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5207	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5208	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5209,10	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C5211	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5252-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5255	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5256	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5257	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5258	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5259,60	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C5261	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5301	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5302	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5305	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C5307,08	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C5312-14	EEVHB1C470	E.CAPACITOR 16V 47U	3	
C5316	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5321-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	17	
D4001	MA142K	DIODE	1	
D4003	MA716	DIODE	1	
D4004,05	MA142K	DIODE	2	
D5001	MA142K	DIODE	1	
D5002-05	MA142WK	DIODE	4	
D5301	MA3J14300L	DIODE	1	
D5302	MA142K	DIODE	1	
D5303	MA716	DIODE	1	
FL4001	EIR7QF012B	TRANSFORMER	1	
IC4001,02	C0ABBB000184	IC	2	
IC4003	NJM78L09UA	IC	1	C0CBAHC00002
IC4005	XC62FP5002P	IC	1	
IC4006	XC62DN5002P	IC	1	
IC4007	NJM78L09UA	IC	1	C0CBAHC00002
IC5001	TVHT244FT	IC	1	
IC5002	TC7WU04FU	IC	1	
IC5003	TVHC02FT	IC	1	
IC5004-07	TC4S30F	IC	4	C0JBAZ000429
IC5101,02	UPC5102GS030	IC	2	C1ZBZ0001316
IC5103,04	TC4S30F	IC	2	C0JBAZ000429
IC5201	NJM082BV	IC	1	
IC5202,03	TC4S69F	IC	2	C0JBAB000138
IC5252,53	TC4S69F	IC	2	C0JBAB000138
IC5301	XC62FP5002P	IC	1	
IC5302,03	XC62DN5002P	IC	2	
L4001	VLQ0423J472	COIL 4700UH	1	
L4004	VLQ0651K181	COIL 180UH	1	G1C181KA0013
L4005	VLQ0651K391	COIL 390UH	1	G1C391KA0013
L5001,02	VLQ0319K330	COIL 33UH	2	G1C330KA0002
L5201,02	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L5251,52	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L5301-07	VLF1151A132	COIL	7	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P4001	VJP2278	CONNECTOR (MALE)	1	K1KA09A00087
P5001	VJS3375B060	CONNECTOR (FEMALE)	1	K1KB60B00011
P5002	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P5003	VJS3900C010	CONNECTOR (FEMALE)	1	K1MN10A00034
Q4001	2SB779-R	TRANSISTOR	1	
Q4003	2SD874-R	TRANSISTOR	1	
Q4005	2SB792-R	TRANSISTOR	1	
Q4006,07	2SD1149-R	TRANSISTOR	2	
Q4008,09	2SD1979	TRANSISTOR	2	
Q4010	2SB779-R	TRANSISTOR	1	
Q4011	2SD874-R	TRANSISTOR	1	
Q5001-04	2SC3935	TRANSISTOR	4	
Q5005,06	2SC2954	TRANSISTOR	2	
Q5007	2SA1532	TRANSISTOR	1	
Q5008	2SC2954	TRANSISTOR	1	
Q5009,10	2SK508K512	TRANSISTOR	2	
Q5011-14	XN1504	TRANSISTOR-RESISTOR	4	
Q5101,02	XN1504	TRANSISTOR-RESISTOR	2	
Q5103	2SA1532	TRANSISTOR	1	
Q5111	XN6537	TRANSISTOR-RESISTOR	1	
Q5112,13	2SC3930	TRANSISTOR	2	
Q5114,15	2SD1979	TRANSISTOR	2	
Q5116,17	XP6534	TRANSISTOR-RESISTOR	2	
Q5121	XN6537	TRANSISTOR-RESISTOR	1	
Q5122,23	2SC3930	TRANSISTOR	2	
Q5124,25	2SD1979	TRANSISTOR	2	
Q5126,27	XP6534	TRANSISTOR-RESISTOR	2	
Q5201	2SD601A	TRANSISTOR	1	
Q5202	2SB709A	TRANSISTOR	1	
Q5203,04	2SC3735B35	TRANSISTOR	2	
Q5251	2SD601A	TRANSISTOR	1	
Q5252	2SB709A	TRANSISTOR	1	
Q5253,54	2SC3735B35	TRANSISTOR	2	
Q5301	2SB1218A	TRANSISTOR	1	
Q5302	2SD1819A-R	TRANSISTOR	1	
QR4001	UN5113	TRANSISTOR-RESISTOR	1	
QR4003	UN5213	TRANSISTOR-RESISTOR	1	
QR4005,06	UN5213	TRANSISTOR-RESISTOR	2	
QR4007,08	UN5113	TRANSISTOR-RESISTOR	2	
QR4009,10	UN5213	TRANSISTOR-RESISTOR	2	
QR5001	UN5111	TRANSISTOR-RESISTOR	1	
QR5002	UN5211	TRANSISTOR-RESISTOR	1	
QR5003,04	UN5111	TRANSISTOR-RESISTOR	2	
QR5101	UN5113	TRANSISTOR-RESISTOR	1	
QR5201	UN5211	TRANSISTOR-RESISTOR	1	
QR5251	UN5211	TRANSISTOR-RESISTOR	1	
QR5301	UN5211	TRANSISTOR-RESISTOR	1	
R4001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4002	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4003	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4005	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4006	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4007	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4009	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4010	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4011	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4013	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4014	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4017	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4020	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4021	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4022	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4023,24	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4025	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4026	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4027	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4028	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4029	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4030	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R4032	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4033	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4034	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4035	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4036	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4037	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4038	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4039	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4040	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4041	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4042	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4043,44	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4045	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4046	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4047,48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4049	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4050	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4051	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5001	D1H84734A008	COMBI.R-R	1	
R5002	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5003	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5004	D1H810140001	COMBI.R-R	1	
R5005,06	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5011	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5012,13	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5014,15	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R5016,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5018,19	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	2	
R5020,21	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R5022,23	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R5024	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R5025	ERJ12YJ270	M.RESISTOR CH 1/2W 270	1	
R5028-31	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	4	
R5032,33	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5034	ERJ6RED820	M.RESISTOR CH 1/10W 82	1	
R5035	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5036-39	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R5040	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5041,42	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5043-46	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R5050	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5051,52	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5053-56	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R5101	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5111	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5112-15	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R5116	D1H84734A008	COMBI.R-R	1	
R5117,18	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R5119-21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R5131,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5133	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5134	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5135,36	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5137,38	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5139,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5141	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R5142	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5143	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5144,45	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5146,47	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5148,49	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5150	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5151-54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5155	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5156	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5161,62	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5163	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5164	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5165,66	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5167,68	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5169,70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5171	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R5172	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5173	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5174,75	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5176,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5178,79	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5180	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5181-84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5186	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5202	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5205	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5206	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5207	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5208	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5209	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5210	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5211	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5212	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5213	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5214	ERJ6RED270	M.RESISTOR CH 1/10W 27	1	
R5215,16	ERJ3RED560	M.RESISTOR CH 1/16W 56	2	
R5217	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5218	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5219	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5220	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5252	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5253	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5256	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5257	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5258	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5259	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5260	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5261	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5262	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5263	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5264	ERJ6RED270	M.RESISTOR CH 1/10W 27	1	
R5265,66	ERJ3RED560	M.RESISTOR CH 1/16W 56	2	
R5267	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5268	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5269	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5270	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5301	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5302	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R5303	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R5304	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5311,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5313-17	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
RY4001	VSY2176	RELAY	1	K6B2CDA00045
RY5001	VSY2176	RELAY	1	K6B2CDA00045
RY5301	VSY2176	RELAY	1	K6B2CDA00045
T4001	VLT0729	TRANSFORMER	1	
T4003	VLT0729	TRANSFORMER	1	
TG4001	EYF6CU	TEST POINT	1	
TG5001	EYF6CU	TEST POINT	1	
TP4001,02	EYF6CU	TEST POINT	2	
TP4005,06	EYF6CU	TEST POINT	2	
TP5001	EYF6CU	TEST POINT	1	
VR4001	EVMEGSA00B54	V.RESISTOR 50K	1	
		MISCELLANEOUS		
	VMP5846	HOLDER ANGLE	1	
	VYQ1745	SHIELD CASE (UPPER) ASS'Y	1	
	VSC4933	SHIELD HOLDER ANGLE	1	
	VSC4934	SHIELD ANGLE	1	
	VSC4928	EARTH FINGER	1	
	XSN26+3	SCREW	1	
	VSC4386	SHIELD CASE (MIDDLE)	1	
	XTV3+6FFR	SCREW	2	
	VSC4437	SHIELD CASE (LOWER)	1	
	VMZ2588	BARRIER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E10	VEP80C14A	MOTHER P.C.BOARD	1	(RTL)
C1,C2	ECA1CHG682	E.CAPACITOR 16V 6800U	2	
D1	21DQ04	DIODE	1	B0JAME000021
L1,L2	VLP0017	COIL	2	J0JHB0000010
P1	K1KB96A00048	CONNECTOR (FEMALE)	1	
P3-P9	K1KB96A00048	CONNECTOR (FEMALE)	7	
P11-15	K1KB96A00048	CONNECTOR (FEMALE)	5	
P16	VJP3375A060	CONNECTOR (MALE)	1	K1KA60A00083
P17	K1KB96A00048	CONNECTOR (FEMALE)	1	
P18,19	K1KA08A00283	CONNECTOR (MALE)	2	
P20	K1KB22B00010	CONNECTOR (FEMALE)	1	
P21	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
		MISCELLANEOUS		
	VKC0392	SPACER	1	
	VMP6815	JACK PB GUIDE ANGLE (B)	1	
	VMP6817	MOTHER ANGLE (B)	1	
	VMP6816	MOTHER ANGLE (A)	1	
	VMP6824	MOTHER ANGLE (C)	1	
	XYE3+EF8FZ	SCREW	8	
	XTV3+6F	SCREW	2	
■ E11	VEP82239A	MECHA I/F P.C.BOARD	1	(RTL)
C1,C2	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C6	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C9,10	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C11,12	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C14,15	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C16	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C151-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C160-63	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C164,65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C201-03	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
D1	MA147	DIODE	1	
D153,54	MA716	DIODE	2	
IC1,C2	0P177GS	IC	2	
IC3	NJM4580ED	IC	1	C0ABBB000123
IC4-C6	NJM4558M	IC	3	
IC151	NJM78L09UA	IC	1	C0CBAHC00002
IC152	NJM79L09UA	IC	1	C0CABBF00001
IC153-55	TVHC14FT	IC	3	
IC156,57	TVHC165FT	IC	2	
L151,52	VLF1151A132	COIL	2	
P11	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P12	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P13	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P14	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P15	VJP3518B002	CONNECTOR (MALE)	1	
P16	VJP3518B003	CONNECTOR (MALE)	1	
P17	VJS3801D015	CONNECTOR (FEMALE)	1	
P18	VJP3518B002	CONNECTOR (MALE)	1	
P19	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P20	VJP3518B003	CONNECTOR (MALE)	1	
P21	VJP3518B002	CONNECTOR (MALE)	1	
P22	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P24	VJP3518B002	CONNECTOR (MALE)	1	
P25	VJP1230T	CONNECTOR (MALE) 3P	1	
P26	VJP1236T	CONNECTOR (MALE) 9P	1	K1KA09A00023
P30	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P32	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P33	VJS3406B015	CONNECTOR (FEMALE)	1	
P34,35	VJS2889A017	CONNECTOR (FEMALE)	2	K1MN17A00008
P36	VJS3406B019	CONNECTOR (FEMALE)	1	
P48	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P151	VJS2899A096	CONNECTOR (FEMALE)	1	K1KB96A00035
Q1	2SB1218A-R	TRANSISTOR	1	
Q101-08	B1DZED000002	TRANSISTOR	8	
QR101-12	UN5213	TRANSISTOR-RESISTOR	12	
R1,R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R7,R8	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R9	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R10	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R11	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R12	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R13	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R14	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R15	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R16	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R17	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R18	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R19	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R20	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R21	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R22	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R24	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R25	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R26	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R27	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R101-04	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R105-07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R108,09	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R110	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R111,12	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R113-16	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R151-64	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	14	
R165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R166,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R168,69	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
VR1	EVMECSA00B24	V.RESISTOR 20K	1	
VR2	EVMECSA00B54	V.RESISTOR 50K	1	
VR201,02	EVMECSA00B24	V.RESISTOR 20K	2	
■ E12	VEP82240A	MECHA I/F 2 P.C.BOARD	1	(RTL)
C1,C2	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C6	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C9,10	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C11,12	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C14,15	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C16	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C151-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C160-63	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C164,65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C201-03	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
D1	MA147	DIODE	1	
D153,54	MA716	DIODE	2	
IC1,C2	0P177GS	IC	2	
IC3	NJM4580ED	IC	1	C0ABBB000123
IC4-C6	NJM4558M	IC	3	
IC151	NJM78L09UA	IC	1	C0CBAHC00002
IC152	NJM79L09UA	IC	1	C0CABBF00001
IC153-55	TVHC14FT	IC	3	
IC156,57	TVHC165FT	IC	2	
L151,52	VLF1151A132	COIL	2	
P11	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P12	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P13	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P14	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P15	VJP3518B002	CONNECTOR (MALE)	1	
P16	VJP3518B003	CONNECTOR (MALE)	1	
P17	VJS3801D015	CONNECTOR (FEMALE)	1	
P18	VJP3518B002	CONNECTOR (MALE)	1	
P19	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P20	VJP3518B003	CONNECTOR (MALE)	1	
P21	VJP3518B002	CONNECTOR (MALE)	1	
P22	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P24	VJP3518B002	CONNECTOR (MALE)	1	
P25	VJP1230T	CONNECTOR (MALE) 3P	1	
P26	VJP1236T	CONNECTOR (MALE) 9P	1	K1KA09A00023
P30	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P32	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P33	VJS3406B015	CONNECTOR (FEMALE)	1	
P34,35	VJS2889A017	CONNECTOR (FEMALE)	2	K1MN17A00008
P36	VJS3406B019	CONNECTOR (FEMALE)	1	
P48	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P151	VJS2899A096	CONNECTOR (FEMALE)	1	K1KB96A00035
P1001	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
P1002	K1KA96B00032	CONNECTOR (MALE)	1	
Q1	2SB1218A-R	TRANSISTOR	1	
Q101-08	B1DZED000002	TRANSISTOR	8	
QR101-12	UN5213	TRANSISTOR-RESISTOR	12	
R1,R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R7,R8	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R9	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R10	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R11	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R12	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R13	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R14	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R15	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R16	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R17	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R18	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R19	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R20	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R21	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R22	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R24	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R25	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R26	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R27	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R101-04	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R105-07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R108,09	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	

Components identified with the mark ⚠ have the special characterisitics for safety.
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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R110	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R111,12	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R113-16	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R151-64	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	14	
R165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R166,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R168,69	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
VR1	EVMECSA00B24	V.RESISTOR 20K	1	
VR2	EVMECSA00B54	V.RESISTOR 50K	1	
VR201,02	EVMECSA00B24	V.RESISTOR 20K	2	
		MISCELLANEOUS		
	VMP6808	CONNECTION PB ANGLE	1	
	XTV3+6F	SCREW	2	
■ E13	VEP81221A	POWER 1 P.C.BOARD	1	(RTL)
C1002,03	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1004	ECHU1H471GB	P.CAPACITOR 50V 470P	1	
C1005	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C1006	ECA1HXL010	E.CAPACITOR 50V 1U	1	
C1007	ECQE6473KF	P.CAPACITOR 630V 0.047U	1	
C1008	VCK0106K221	C.CAPACITOR 220P	1	
C1009	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C1010	ECUX1H562KBV	C.CAPACITOR CH 50V 5600P	1	
C1011	ECA1VXL470	E.CAPACITOR 35V 47U	1	
C1012	ECA1HXL330	E.CAPACITOR 50V 33P	1	
C1015	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1017	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C1101	ECA1HXL100	E.CAPACITOR 50V 10U	1	
⚠ C1107	ECQU2A474ML	P.CAPACITOR 100V 0.47U	1	
⚠ C1109	VCK0262M222A	C.CAPACITOR 2200P	1	F1BAH2220002
C1110,11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C1114	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	1	
C1116	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1117	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1119	ECQV1H684JF	P.CAPACITOR 50V 0.68U	1	
⚠ C1120	VCK0262M102A	C.CAPACITOR 1000P	1	F1BAH1020001
C1122	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1123	ECQE2W225KC	P.CAPACITOR 450V 2.2U	1	
C1124	EEUFC1H121L	E.CAPACITOR 50V 120U	1	
C1125	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C1126	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C1127	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1128	ECQF6222JZ	P.CAPACITOR 630V 2200P	1	
C1129	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1130,31	VCK0106K471	C.CAPACITOR 470P	2	
C1132	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1133,34	VCK0106K471	C.CAPACITOR 470P	2	
C1135	ECEC2WC151CB	E.CAPACITOR 450V 150P	1	
C1138	ECA1HXL100	E.CAPACITOR 50V 10U	1	
⚠ C1139	VCK0262M222A	C.CAPACITOR 2200P	1	F1BAH2220002
C1140	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1201-10	ECQE6473KF	C.CAPACITOR 1000P	10	
C1211-14	EEUFC1A682	E.CAPACITOR 10V 6800U	4	
C1215	EEUFC1E182	E.CAPACITOR 25V 1800U	1	
C1217	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C1218	EEUFC1A682	E.CAPACITOR 10V 6800U	1	
C1219,20	EEUFC1E102LE	E.CAPACITOR 25V 1000U	2	
C1221	EEUFC1A682	E.CAPACITOR 10V 6800U	1	
C1222	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C1223	ECA1EXL101	E.CAPACITOR 25V 100U	1	
C1224-26	ECA1CXL101	E.CAPACITOR 16V 100U	3	
C1227,28	ECA1EXL101	E.CAPACITOR 25V 100U	2	
C1229,30	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C1231	ECA1CXL101	E.CAPACITOR 16V 100U	1	
C1232	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1233	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1234	ECA1HXL100	E.CAPACITOR 50V 10U	1	
C1235	ECA1HXL2R2	E.CAPACITOR 50V 2.2U	1	
C1236,37	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C1239	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C1240,41	ECQE6473KF	C.CAPACITOR 1000P	2	
C1242	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1243	ECA1EXL101	E.CAPACITOR 25V 100U	1	
C1244	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
D1001	MA142WA	DIODE	1	
D1002	MA142K	DIODE	1	
D1003	MA3240-H	DIODE	1	
D1005	EG01C	DIODE	1	B0HAGV000001
D1006	MA3051-M	DIODE	1	
D1007	SFPL-52	DIODE	1	
D1008	MA3200-M	DIODE	1	
D1009,10	SFPL-52	DIODE	2	
D1013	SFPL-52	DIODE	1	
D1101,02	MA3200-M	DIODE	2	
D1103	MA3068-M	DIODE	1	
D1104	MA142K	DIODE	1	
D1105,06	ERA15-08	DIODE	2	B0AAMT000001
D1107	MA142K	DIODE	1	
D1108	MA1070400L	DIODE	1	
D1109	RBV606	DIODE	1	
D1110	MA701A	DIODE	1	
D1111,12	MA3200-M	DIODE	2	
D1113-15	SFPL-52	DIODE	3	
D1116	MA3068-M	DIODE	1	
D1117	MA142K	DIODE	1	
D1118	FML-G26S	DIODE	1	
D1119,20	ERA15-08	DIODE	2	B0AAMT000001
D1201	FMBG24H	DIODE	1	
D1202,03	FML-G12SP	DIODE	2	
D1204	D20LC20U	DIODE	1	B0HBSM000021
D1205	FML-G12SP	DIODE	1	
D1206	MA142WA	DIODE	1	
D1207	FML-G12SP	DIODE	1	
D1208	MA142K	DIODE	1	
D1209	MA3160-L	DIODE	1	
D1210	MA142K	DIODE	1	
D1211	MA3100-M	DIODE	1	
D1212	MA3051-M	DIODE	1	
D1213	MA3240-H	DIODE	1	
D1214	MA3160-L	DIODE	1	
D1215	MA3100-M	DIODE	1	
D1216-18	MA142K	DIODE	3	
D1219	MA3027-H	DIODE	1	
D1221	MA3027-H	DIODE	1	
D1222-24	MA142K	DIODE	3	
IC1001	FA5311BP	IC	1	C0DAAZZ00002
IC1101	MC33262P	IC	1	C0DAZZZ00013
IC1102	M51945BL	IC	1	C0EAB0000004
IC1103	M51953BL	IC	1	C0EAH0000033
IC1201	UPC1944J	IC	1	C0DAZLB00001
IC1202	C0DAEZH00010	IC	1	
IC1203	UPC1093J	IC	1	C0DAEMC00002
IC1204	NJM2903M	IC	1	
IC1205	PQ30RV31	IC	1	
L1001	VLP0074	COIL	1	J0JDB0000002
⚠ L1102,03	ELF21N020A	FILTER	2	
L1104	VLQ0820	COIL	1	
L1201	VLQ0655K220	COIL 22UH	1	
L1202	VLQ0826M4R7	COIL 4.7UH	1	
L1203	VLQ0826M100	COIL 10UH	1	
L1204,05	VLQ0826K220	COIL 22UH	2	
L1206	VLQ0655K220	COIL 22UH	1	
P1103	VJP2638	CONNECTOR (MALE)	1	K1KA02A00112
P1201,02	K1KB08A00077	CONNECTOR (FEMALE)	2	
Q1001	B1DEFV000001	TRANSISTOR	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ Q1002-04	PS2561L1V1WL	TRANSISTOR	3	B3QAZ0000030
Q1101	2SJ278	TRANSISTOR	1	
Q1102	TM1661S-L	DIODE	1	
Q1103	B1DEGR000013	TRANSISTOR	1	
Q1201	XN4501	TRANSISTOR-RESISTOR	1	
Q1202	XN4401	TRANSISTOR-RESISTOR	1	
Q1203	XN4501	TRANSISTOR-RESISTOR	1	
QR1001	UN2213	TRANSISTOR-RESISTOR	1	
QR1002	UN2111	TRANSISTOR-RESISTOR	1	
QR1101	UN2112	TRANSISTOR-RESISTOR	1	
QR1102	UN2215	TRANSISTOR-RESISTOR	1	
QR1103	UN2113	TRANSISTOR-RESISTOR	1	
QR1104,05	UN2213	TRANSISTOR-RESISTOR	2	
QR1201	UN2211	TRANSISTOR-RESISTOR	1	
QR1202	UN2214	TRANSISTOR-RESISTOR	1	
QR1203	UN2111	TRANSISTOR-RESISTOR	1	
QR1204	UN2214	TRANSISTOR-RESISTOR	1	
QR1205	UN2111	TRANSISTOR-RESISTOR	1	
QR1206,07	UN2213	TRANSISTOR-RESISTOR	2	
R1002	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1003	VRT0142	THERMISTOR	1	D4DDB3310005
R1004	ERW1PKR33	W.RESISTOR 1W 0.33	1	
R1005	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1006	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1007	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R1008,09	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1010	ERG2SJ180	M.RESISTOR 2W 18	1	
R1011	ERJ6RBD241	M.RESISTOR CH 1/10W 240	1	
R1012	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R1013	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1014	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1015	ERJ12YJ220	M.RESISTOR CH 1/2W 22	1	
R1016,17	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1018	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R1019	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1020	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1021	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1022	ERJ14YJ4R7	M.RESISTOR CH 1/4W 4.7	1	
R1101,02	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1103	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1104	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R1105	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1107	ERJ3RED224	M.RESISTOR CH 1/16W 220K	1	
R1108	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1109	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R1110	ERJ3RED334	M.RESISTOR CH 1/16W 330K	1	
R1112-14	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	
R1115,16	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R1117,18	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	2	
R1119	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1121,22	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1123,24	ERJ12YJ683	M.RESISTOR CH 1/2W 63K	2	
⚠ R1125	ERU5TEJ100	F.RESISTOR 5W 10	1	
R1127-30	ERJ12YJ683	M.RESISTOR CH 1/2W 63K	4	
R1131	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1132	ERG2SJ221	M.RESISTOR 2W 220	1	
R1133	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1134	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1135	ERJ12YJ100	M.RESISTOR CH 1/2W 10	1	
R1136	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1137	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1139	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1140	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1141	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1142,43	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1144	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	1	
R1145	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1146	ERJ12YJ472	M.RESISTOR CH 1/2W 4.7K	1	
R1147	ERG2SJ220	M.RESISTOR 2W 22	1	
R1148	ERF2TKR15	W.RESISTOR 2W 0.15	1	
R1150-52	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1153	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R1154	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1155	ERG2SJ220	M.RESISTOR 2W 22	1	
R1161	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1165	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R1167-69	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1201	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R1202,03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1204-08	ERG2SJ220	M.RESISTOR 2W 22	5	
R1209	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R1210,11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1212	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1213	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1215	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1216,17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1218,19	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R1220	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1221	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R1222	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R1223	ERJ3RBD621	M.RESISTOR CH 1/16W 620	1	
R1224	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R1225	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1226	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1227	VRT0033	THERMISTOR	1	D4DDB3310004
R1228,29	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R1230	ERX2SJ0R1	M.RESISTOR 2W 0.1	1	
R1231	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1232	ERX2SJ0R1	M.RESISTOR 2W 0.1	1	
R1233	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1234	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1235	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1237-39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R1240	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1241	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1242	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1244	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1245	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1247	ERG2SJ470	M.RESISTOR 2W 47	1	
R1248	ERG2SJ221	M.RESISTOR 2W 220	1	
R1249	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1250,51	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1252	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1253	ERG2SJ220	M.RESISTOR 2W 22	1	
R1254	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R1255	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
⚠ T1001	ETS42AE326AD	TRANSFORMER	1	
VR1102	EVMEASA00B52	V.RESISTOR 500	1	
VR1201	EVMEASA00B13	V.RESISTOR 1K	1	
		MISCELLANEOUS		
	VJR1008	EARTH LUG	4	
	VMZ1608	CAPACITOR TUBE	3	
	VSC5221	HEAT SINK (A)	1	
	VSC5222	HEAT SINK B	1	
	VLP0336	FERRITE CORE	4	
	VLP0394	FERRITE BEAD	3	J0KE00000032
	VMZ2919	BARRIER	1	
	XYN3+F6FZS	SCREW	2	
	XYN3+F8FZS	SCREW	9	
	XYN3+F10	SCREW	3	
	VJF1348	CLAMPER	1	
■ E14	VEP81222A	POWER 2 P.C.BOARD	1	(RTL)
⚠ C1502	VCK0262K101A	C.CAPACITOR 100P	1	F1BAH101A001
⚠ C1503	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1504	VCK0262K101A	C.CAPACITOR 100P	1	F1BAH101A001

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ L1501	ELF19N020A	FILTER	1	
P1501	VJS2985	AC INLET	1	K2AH3H000012
P1502	VJP2638	CONNECTOR (MALE)	1	K1KA02A00112
⚠ R1506	ERC12AGM334	S.RESISTOR 1/2W 330K	1	
		MISCELLANEOUS		
	VMZ1608	CAPACITOR TUBE	2	
	EYF52BC	FUSE HOLDER	2	
⚠	VSF0106C31H	FUSE	1	
	VJR1008	EARTH LUG	2	
	VEE9627	FG CABLE	1	
⚠	VMP6812	AC IN HOLDER ANGLE	1	
	XSN3+6FZ	SCREW	2	
	XYN3+F8	SCREW	2	
	XYN4+E6VW	SCREW	1	
	VMZ0429	FUSE COVER	1	
■ E15	VEP80C13A	AV JACK P.C.BOARD	1	(RTL)
C1	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C2	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C3,C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C6-C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C9,10	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C11,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C13,14	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C15-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C24,25	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C26	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C27,28	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C150	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C151,52	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	2	
C155	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C157	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C158	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C160	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
D1	MA716	DIODE	1	
IC1	NJM78L09UA	IC	1	C0CBAHC00002
IC2	NJM79L09UA	IC	1	C0CABBF00001
IC3	XC62FP5002P	IC	1	
IC4	XC62DN5002P	IC	1	
IC5	XC62FP5002P	IC	1	
IC6	XC62DN5002P	IC	1	
IC7	NJM360M	IC	1	
IC150	C0JBAB000243	IC	1	
J1	VJS3902	CONNECTOR (FEMALE)	1	K1CB204H0002
J2	VJS3901	CONNECTOR (FEMALE)	1	K1CB204H0004
J3,J4	K4BA04A00002	TERMINAL	2	
J5-J7	VJS3902	CONNECTOR (FEMALE)	3	K1CB204H0002
J8	VJS3901	CONNECTOR (FEMALE)	1	K1CB204H0004
J9	VJS3902	CONNECTOR (FEMALE)	1	K1CB204H0002
J10	VJP3414A009	CONNECTOR (MALE)	1	K1FB109A0016
J12	VJP3414A015	CONNECTOR (MALE)	1	K1FB115A0008
J13	VJP3414A025	CONNECTOR (MALE)	1	K1FB125A0011
J16	VJS3417	CONNECTOR (FEMALE)	1	K1AB103A0007
J17	VJP3417	CONNECTOR (MALE)	1	K1AA103A0003
J18	K2HA101A0012	JACK	1	
J20	VJS3417	CONNECTOR (FEMALE)	1	K1AB103A0007
J21	VJP3417	CONNECTOR (MALE)	1	K1AA103A0003
L2	VLP0145	COIL	1	
L4	VLP0145	COIL	1	
L6	VLP0145	COIL	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L8,L9	VLP0145	COIL	2	
L11	VLP0145	COIL	1	
L13	VLP0145	COIL	1	
L15	VLP0145	COIL	1	
L17	VLP0145	COIL	1	
L18	VLQ0426J1R8	COIL 1.8UH	1	G1C1R8J00007
L150	VLQ0319K470	COIL 47UH	1	G1C470K00013
P1	VJS3814	CONNECTOR (FEMALE)	1	K1KB96A00037
P2	VJP1243T	CONNECTOR (MALE) 3P	1	
P100	VJP1246T	CONNECTOR (MALE) 6P	1	
Q1,Q2	2SC2295-C	TRANSISTOR	2	
Q150,51	2SC3930	TRANSISTOR	2	
Q152	2SA1532	TRANSISTOR	1	
Q153	2SC3930	TRANSISTOR	1	
Q154	2SA1532	TRANSISTOR	1	
R1-R3	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	3	
R4	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R5,R6	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	2	
R7	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R8	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R9	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R10	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R11	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R12	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R13	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R14	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R15	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R20	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R21	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R22	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R23-25	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R26	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R30-45	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	16	
R101	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R153,54	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R155	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R156	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R157,58	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R159	ERJ6GEYG750	M.RESISTOR CH 1/10W 75	1	
SW1,W2	VSS0307	SWITCH	2	K0D122A00105
		MISCELLANEOUS		
	VMP4866	D SUB ANGLE	1	
	VXQ0102	SCREW	6	K1YE50000008
	XYN26+F8	SCREW	2	
	VMP6814	JACK PB GUIDE ANGLE (A)	1	
	VSC5248	EARTH ANGLE	2	
■ E16	VEP86315A	FRONT P.C.BOARD	1	(RTL)
C1-C7	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C50,51	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C52	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C53	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C54	EEUFC1A681	E.CAPACITOR 10V 680U	1	
C55,56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C57	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C58	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C60	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C104	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C105	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C106	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C107	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C108-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C114,15	EEVHB1C470	E.CAPACITOR 16V 47U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C116,17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C119	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C120	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C121	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
D1	LN28RCPP	LED	1	
D2-D5	LN38GCPP	LED	4	
D6	MA716	DIODE	1	
D7,D8	LN48YCPP	LED	2	
D9,10	LN38GCPP	LED	2	
D25	MA4300-M	DIODE	1	
D26	MA166	DIODE	1	
D27	MA4062M	DIODE	1	
D28,29	MA166	DIODE	2	
D101-07	MA716	DIODE	7	
DP1	VSL0489	DISPLAY	1	A2BA00000191
IC1-C4	TVHC165FT	IC	4	
IC5	TC74HC4094F	IC	1	C0JBAQ000104
IC6	TC74HC4050AF	IC	1	
IC7	UPD16310GF	IC	1	
IC8	TVHC123FT	IC	1	
IC9	XC62FP5002P	IC	1	
IC10	NJM2904M	IC	1	
IC11	NJM78L09UA	IC	1	C0CBAHC00002
IC12	NJM79L09UA	IC	1	C0CABBF00001
IC13	TVHT04FT	IC	1	
IC14	NJM78L09UA	IC	1	C0CBAHC00002
L1,L2	VLF1151A132	COIL	2	
P1	K1KA22C00001	CONNECTOR (MALE)	1	
P2	K1KB08C00003	CONNECTOR (FEMALE)	1	
Q6,Q7	2SC1815Y	TRANSISTOR	2	B1AACF000024
Q8	2SC3074Y	TRANSISTOR	1	
QR1-R7	UN2214	TRANSISTOR-RESISTOR	7	
R1-32	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	32	
R33-37	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	5	
R38	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R40	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R51	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R52	ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R54	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R55	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R58	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R59,60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R61,62	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R100	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R101	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R102	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R103	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R105	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R106	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R107	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R108,09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R110	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R111	D1H84734A008	COMBI.R-R	1	
R112,13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R116	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R118	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
SW2-W8	VSP1005	SWITCH	7	K0H1BA000148
SW9-16	VSP1031	SWITCH	8	K0H1BA000328
SW17-19	VSS0280	SWITCH	3	K0D123A00061
SW20	VSS0346	SWITCH	1	K0D123A00043
SW21,22	VSS0280	SWITCH	2	K0D123A00061
SW23	VSS0346	SWITCH	1	K0D123A00043

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TR1	VLT0884	TRANSFORMER	1	G4ZZ00000366
VR1,R2	EVUFSA003B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VMX1858	LED SPACER	9	
	VJF1360	DISPLAY HOLDER	1	
	VSC5249	REFLECTION PLATE	1	
■ E17	VEP80C15A	HEAD PHONE P.C.BOARD	1	(RTL)
C1,C2	ECA1CHG682	E.CAPACITOR 16V 6800U	2	
C1001,02	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	2	
D1	21DQ04	DIODE	1	B0JAME000021
FL1001,02	VLF1016A223	FILTER	2	
IC1001	NJM4556AM	IC	1	
J1001	VJJ0378	M6 JACK	1	K2HB103B0019
L1,L2	VLP0017	COIL	2	J0JHB0000010
P1	K1KB96A00048	CONNECTOR (FEMALE)	1	
P3-P9	K1KB96A00048	CONNECTOR (FEMALE)	7	
P11-15	K1KB96A00048	CONNECTOR (FEMALE)	5	
P16	VJP3375A060	CONNECTOR (MALE)	1	K1KA60A00083
P17	K1KB96A00048	CONNECTOR (FEMALE)	1	
P18,19	K1KA08A00283	CONNECTOR (MALE)	2	
P20	K1KB22B00010	CONNECTOR (FEMALE)	1	
P21	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
P1001	K1KA08B00188	CONNECTOR (MALE)	1	
Q1001,02	2SD1328	TRANSISTOR	2	
R1001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1002	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1003	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1004	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1005	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1006	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1011	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1012	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1013	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1014	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1015	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1016	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
VR1001	EVUNCA040A14	V.RESISTOR 10K	1	
		MISCELLANEOUS		
	VMP6818	FRONT JACK ANGLE	1	
	XTV3+6F	SCREW	1	
	VMP5137	HEAD PHONE GND ANGLE	1	
	VKC0392	SPACER	1	
	VMP6815	JACK PB GUIDE ANGLE (B)	1	
	VMP6817	MOTHER ANGLE (B)	1	
	VMP6816	MOTHER ANGLE (A)	1	
	VMP6824	MOTHER ANGLE (C)	1	
	XYE3+EF8FZ	SCREW	8	
	XTV3+6F	SCREW	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E18	VEP80C16A	EJECT P.C.BOARD	1	(RTL)
SW2001	VSP1005	SWITCH	1	K0H1BA000148
		MISCELLANEOUS		
	VWJ03CN060AA	FLAT CABLE	1	
■ E19	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE) 9P	1	K1KA09B00028
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST (AJ-YA455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3000,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3002,03	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3004-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3007	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3008	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3100,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3103,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3107	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3200,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3202	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3203	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3204-06	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C3207	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3208	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3209	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C3210	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C3211	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C3212	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3213,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3215,16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3217	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3218	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3219	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3220	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3221	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3222	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C3223	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3224	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3225	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3226	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3227	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3228	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C3229	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3230	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3330-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3400-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3410,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3412	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3413-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3416	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3417	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3418	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3419	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3424	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3500-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3508-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3518	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3521-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3524	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3525-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3528	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3529	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3530	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3531	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3532	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
D3200	LN1251CAL	DIODE	1	
D3201,02	MA151K	DIODE	2	
IC3000	XC62FP2502PR	IC	1	
IC3102,03	NVHC541MTCX	IC	2	
IC3104	NVHC245MTCX	IC	1	
IC3105	74LCX245MTCX	IC	1	
IC3200	XC62FP5002P	IC	1	
IC3201	C1AB00001385	IC	1	
IC3202	XC62FP5002P	IC	1	
IC3203	GS9028-CKA	IC	1	C1AB00000365
IC3204	C1AB00001088	IC	1	
IC3205	XC62FP5002P	IC	1	
IC3300	74LCX541MTCX	IC	1	
IC3301	GS9023-CFY	IC	1	
IC3400	74LCX541MTCX	IC	1	
IC3401	GS9023-CFY	IC	1	
IC3402	C1AB00001386	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3404	XC62FP5002P	IC	1	
IC3405	NVHC541MTCX	IC	1	
IC3500,01	NVHC541MTCX	IC	2	
IC3502	C1ZBZ0001837	IC	1	
IP3503	C3ZBH0000010	IC	1	
IC3505	UPD6456T611Y	IC	1	C1AB00000555
IC3506	XC62FP5002P	IC	1	
IC3507	C1AB00001386	IC	1	
ID0	VVVSI3569	SOFTWARE	1	
J3200,01	VJP3461	CONNECTOR (MALE)	2	K1QZA1BA0001
J3400,01	VJP3461	CONNECTOR (MALE)	2	K1QZA1BA0001
J3500	VJP3461	CONNECTOR (MALE)	1	K1QZA1BA0001
L3000,01	VLF1151A132	COIL	2	
L3200	VLQ0426J015	COIL 15UH	1	
L3201,02	VLQ0426J010	COIL 1UH	2	
L3400,01	VLQ0426J010	COIL 1UH	2	
L3500,01	VLQ0426J010	COIL 1UH	2	
P3000	K1KA96B00032	CONNECTOR (MALE)	1	
P3500	VJP3125B008	CONNECTOR (MALE)	1	
QR3200	UN2214	TRANSISTOR-RESISTOR	1	
R3100,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3102-05	D1H84734A008	COMBI.R-R	4	
R3200	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R3201	ERJ3RED390	M.RESISTOR CH 1/16W 39	1	
R3202,03	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R3204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3205	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R3206,07	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R3209	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3211	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3212	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3213	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3214-17	ERJ3RED750	M.RESISTOR CH 1/16W 75	4	
R3218	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R3219-22	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R3223	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R3224	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R3225	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R3226-28	D1H810140001	COMBI.R-R	3	
R3229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3330	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3333	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3334	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3335	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R3336	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3400	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3401-04	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	4	
R3405-08	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R3409	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3410	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3413	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3415	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R3416-19	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R3420	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3421,22	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3423	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3424	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3500,01	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R3502-04	D1H833040002	COMBI.R-R	3	
R3505,06	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3508	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3509	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3510	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3511	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3512,13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3514	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3515	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3516-18	D1H810140001	COMBI.R-R	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3519	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3520	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3521	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3522-24	D1H810140001	COMBI.R-R	3	
R3526	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3528	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R3529	D1H833040002	COMBI.R-R	1	
R3530,31	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3533-37	ERJ6RED750	M.RESISTOR CH 1/10W 75	5	
R3538-41	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
TG3000	EYF6CU	TEST POINT	1	
TG3200	EYF6CU	TEST POINT	1	
TG3400	EYF6CU	TEST POINT	1	
		MISCELLANEOUS		
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST (AJ-YAD455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83559A	DIF P.C.BOARD	1	(RTL)
■ E2	VEP80C21A	DIF JACK P.C.BOARD	1	(RTL)
■ E1	VEP83559A	DIF P.C.BOARD	1	(RTL)
C201-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C204	EEVHB1C101P	E.CAPACITOR 16V 100U	1	
C205-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C210-13	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C214-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C218	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C219-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C222	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C223-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C227	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C228	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C230	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C233,34	VCEA1AAP330	E.CAPACITOR 10V 33U	2	
C301,02	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C305-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C401-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C501-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C507-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C512	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C513	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C514	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C515	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C516	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C519	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C601-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C701-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C802	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C901-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
D201,02	MA701A	DIODE	2	
D301,02	LN1251CAL	DIODE	2	
D701,02	LN1251CAL	DIODE	2	
IC201-04	XC62FP3202P	IC	4	
IC206	LT1086CM	IC	1	C0CBAYG00001
IC207	74AHC1G08DCK	IC	1	
IC208	NVHC541MTCX	IC	1	
IC209	TVS1129	IC	1	C0JBAZ000525
IC210	C0EBE0000074	IC	1	
IC301	M31010M6115H	IC	1	
IC302	74AHC1G32DCK	IC	1	
IC402	AK6440AF	IC	1	
IC403,04	M5256DVP10VL	IC	2	C3BBFC000171
IC405	IDT71V321L5F	IC	1	C3HBCC000023
IC501	TSB13LV11PBW	IC	1	
IC601	C9ZB00000370	IC	1	
IC704	NVHC244MTCX	IC	1	
IC705	X9144L7T100	IC	1	
IC801	S51V18165D6T	IC	1	
IC901	C0JBAZ001544	IC	1	
IC902	NVHC541MTCX	IC	1	
IC903	74LCX244MTCX	IC	1	
ID401	VVVSI3570B	SOFTWARE	1	
ID702	VVVSI3571A	SOFTWARE	1	
ID705	VVVSI3622	SOFTWARE	1	
IP401	C3FBLD000046	IC	1	
IP702	C3FBLD000046	IC	1	
L201-03	VLF1151A132	COIL	3	
L501,02	J0LC00000008	FILTER	2	
P101	K1KA96B00032	CONNECTOR (MALE)	1	
P401	VJS3791B020	CONNECTOR (FEMALE)	1	
P501	K1KA06B00120	CONNECTOR (MALE)	1	
P701,02	VJP3125B008	CONNECTOR (MALE)	2	
QR301,02	UN5213	TRANSISTOR-RESISTOR	2	
QR701,02	UN5213	TRANSISTOR-RESISTOR	2	
R201	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R202	D1H810240001	COMBI.R-R	1	
R203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R204	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R205	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R206	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R207	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R302	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R303	ERJ3GEYJ431	M.RESISTOR CH 1/16W 430	1	
R304	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R306	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R307,08	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R309,10	D1H84734A008	COMBI.R-R	2	
R316	D1H810240001	COMBI.R-R	1	
R317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R318	D1H810240001	COMBI.R-R	1	
R320-24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R325	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R327	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R328,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R403	D1H84734A008	COMBI.R-R	1	
R404-08	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R409	D1H810240001	COMBI.R-R	1	
R410	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R451	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R502	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R503,04	D1H84734A008	COMBI.R-R	2	
R506-08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R509	D1H84734A008	COMBI.R-R	1	
R510	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R511	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R512	ERJ6RBD622	M.RESISTOR CH 1/10W 6.2K	1	
R513,14	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R515	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R516,17	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R518	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R519	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R520	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R521,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R601-03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R604,05	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R606	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R607	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R608	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R623	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R626-28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	D1H810240001	COMBI.R-R	1	
R704	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R705	D1H810240001	COMBI.R-R	1	
R707-11	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	5	
R712	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R713	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R716	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R717	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R718,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R720	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R721	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R722	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R723	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R724	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R726,27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R728	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R732	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R733	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R734	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R735	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R736	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R747-49	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	3	
R904	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R905	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R907	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R908	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R909,10	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R912-14	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R916	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
SW201	VSP1005	SWITCH	1	K0H1BA000148
SW301	VSS0367-08B	SWITCH	1	
SW701	VSS0367-04B	SWITCH	1	
X301	VSX0883	CRYSTAL OSCILLATOR	1	H0J200500015
X501	VSX0974	CRYSTAL OSCILLATOR	1	H0J245500010
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
■ E2	VEP80C21A	DIF JACK P.C.BOARD	1	(RTL)
P101	VJP3993	CONNECTOR (MALE)	1	K1FB106B0003
P102	K1KA06B00120	CONNECTOR (MALE)	1	
R101-04	ERDS2T0	C.RESISTOR 1/4W 0	4	
SW2001	VSP1005	SWITCH	1	K0H1BA000148
		MISCELLANEOUS		
	VWJ03CN060AA	FLAT CABLE	1	
	VEE0N57	DIF CABLE	1	
	VJF1344	CONNECTOR HOLDER (1)	1	
	VJF1345	CONNECTOR HOLDER (2)	1	
	XYN2+J6	SCREW	4	
	VMP6821	OPTION ANGLE	1	
	XTN3+6FFY	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

1. POWER SUPPLY UNIT

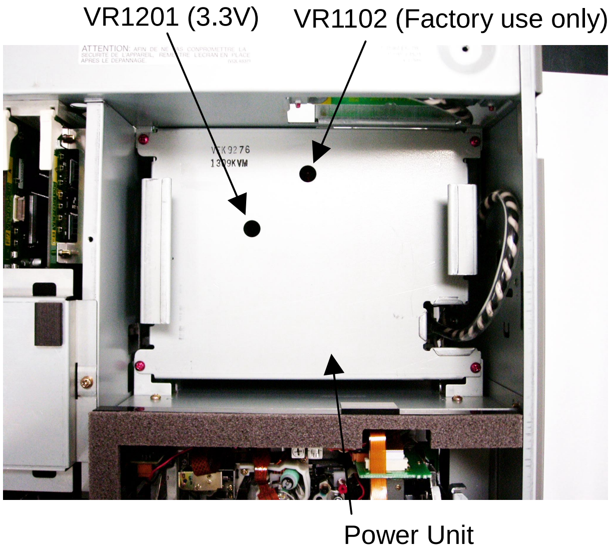
1-1. Power Supply Voltage Adjustment

BOARD	POWER UNIT
TP	TP6 (+3.3V) (on the extension board)
ADJ.	VR1201 (+3.3V)
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital Voltmeter
SPEC.	+3.35V ± 0.05V

1. Extend the Servo (F7) board with extension board.
2. Turns ON the power switch, and set to “EJECT” mode.
3. Connect Digital Voltmeter to TP6 on the extension board, and adjust VR1201 so that the DC voltage is in the specification.

<Note>

The VR1102 is for factory, use only.



2. SERVO

2-1. SERVO FG Offset Adjustment

BOARD	SERVO (F7)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	-----
SPEC.	-----

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the “SET” button to open the SERVO ADJUST MENU.
3. Select the **A01 FG DC ADJ**, and Press the “ ▶ ” button continuously until “OK” sign is displayed on the right side of A01 FG DC ADJ. (It takes 5-10 seconds.) (During automatic adjustment, the reel motor and brake solenoid are moving.)
4. Close the menu.

<Note>

1. When “NG” sign is displayed or becoming the “AUTO OFF”, do not insert the tape. Check the mechanism condition and servo circuit.
2. When the parts of mechanism is disassembled and assembled, before inserting a cassette tape, implement this adjustment.
3. When repairing or changing the mechanism (Capstan/Reel), Servo (F7) board, or Syscon (F6) board, implement this adjustment.

2-2. Reel Torque Gain Adjustment

BOARD	SERVO (F7)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Monitor TV
SPEC.	-----

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the “SET” button to open the SERVO ADJUST MENU.
3. Select the **A02:RL GAIN ADJ** by using the “▲” or “▼” button.
4. Press the “▶” button continuously until the two kind of numeric value displayed on the right side of **RL GAIN ADJ** goes off one time. Release the “▶” button when the both two new numeric value has been updated. (It takes 5-6 seconds.)
5. Perform the Item 4 again. And confirm the numeric value is changed to new value.
6. Close the menu.

<Note>

1. When the new numerical value isn't displayed, check the reel brake which wasn't turned while pressing the “▶” button.
2. Before “2-3. Motor Torque Offset Adjustment”, implement this adjustment.

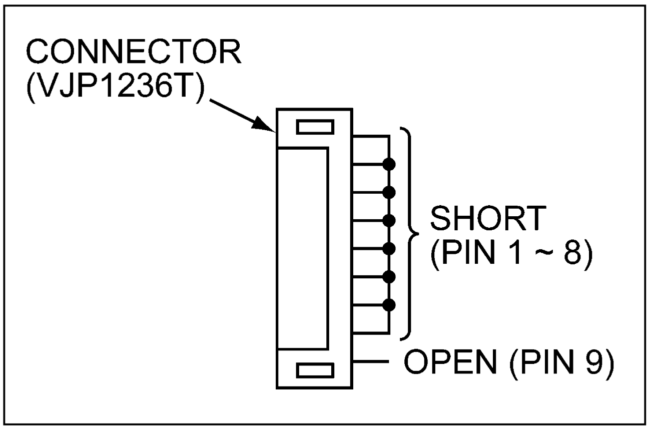
2-3. Motor Torque Offset Adjustment

BOARD	SERVO (F7)
TP	S,T REEL TABLE
ADJ.	SERVICE MENU
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	VFK1191 (Dial Torque Gauge) VFK1152 (Dial Torque Gauge Adaptor)
SPEC.	0.15 ± 0.02 cNm (15g-cm ± 2g-cm) (5 times average)

1. Remove the Front Loading Unit. (Refer to SEC2 Disassembly Procedures)
2. Connect the Carriage tool (see the following figure) to connector P1 which is coming from the MECH. I/F board to Carriage board of the front loading unit.
3. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
4. Select the **A00: SERVO ADJUSTS** and press the “SET” button to open the Servo Adjust menu.
5. Select the **A03: T TORQUE**.
6. Set a Dial Torque Gauge to top of Take-up Reel Table.
7. Press the STOP button and measure the value of Dial Torque Gauge 5 times, then calculate the average and adjust “T TORQUE” with EVR so that the average is in the specification.

Note: While pressing the STOP button, the REEL Table is rotated.

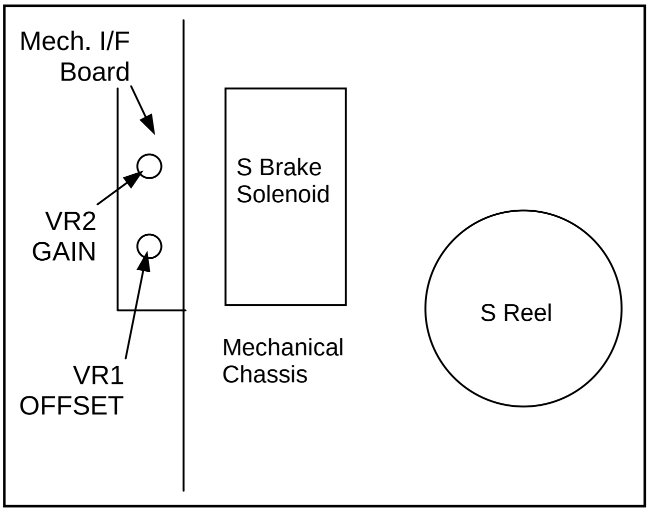
8. Select the item **A04: S TORQUE**.
9. Set a Dial Torque Gauge to top of Supply Reel Table.
10. Press the STOP button and measure the value of Dial Torque Gauge 5 times, then calculate the average and adjust “S TORQUE” with EVR so that the average is in the specification.



2-4. Tension Sensor Voltage Adjustment (1)

BOARD	SERVO (F7)
TP	TP201
ADJ.	VR1 (OFFSET) on the Mech. I/F board
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital voltmeter
SPEC.	2.5V ± 0.05V

1. Connect the Digital voltmeter to TP201.
2. Adjust the VR1 on the Mech. I/F board so that the DC voltage is in the specification.

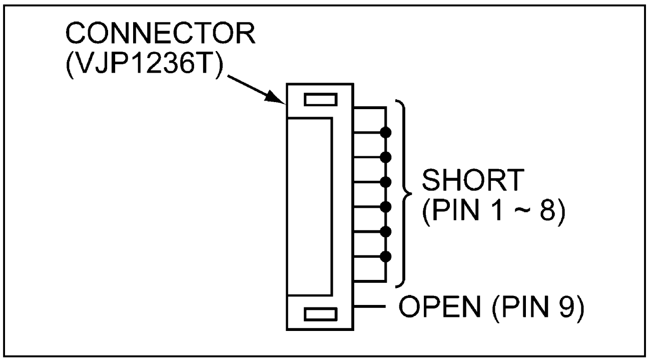

Mech. I/F Board
VR2 GAIN
VR1 OFFSET
S Brake Solenoid
Mechanical Chassis
S Reel

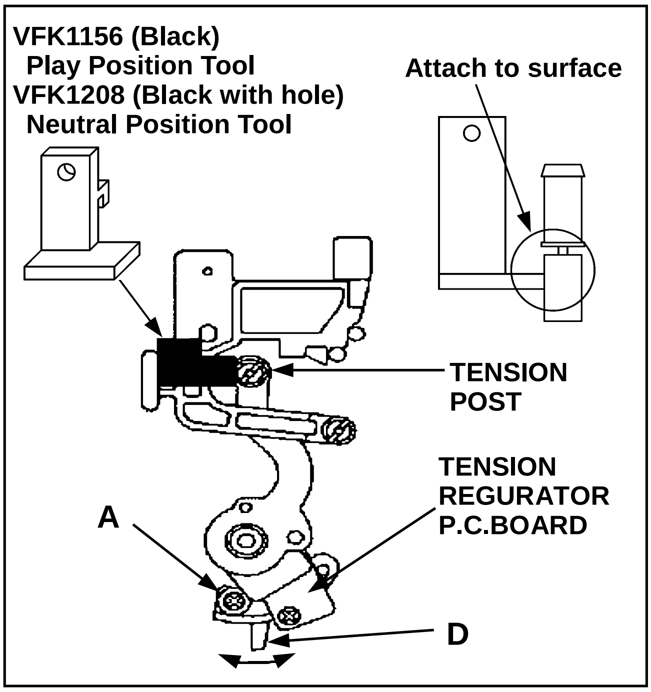
2-5. Tension Sensor Voltage Adjustment (2)

BOARD	SERVO (F7)
TP	TP201
ADJ.	VR2 (GAIN)
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital voltmeter, VFK1208 (Neutral Position Tool, Black with hole) VFK1156 (PLAY Position Tool, Black)
SPEC.	2.5V ± 0.05V

NOTE:
Do not use magnetized tweezers and screwdriver.
Do not touch the magnetize screwdriver to S-Reel FG magnet portion, while adjusting the lever (D) portion.

1. Remove the Front Loading Unit. (Refer to SEC2 Disassembly Procedures)
2. Connect the Carriage tool (see the following figure) to connector P1 which is coming from the MECH. I/F board to Carriage board of the front loading unit.
3. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
4. Select the **A00: SERVO ADJUST** and press the “SET” button to open the SERVO ADJUST MENU.
5. Select the **A08 TENSION**.
6. Install the VFK1208 (black with hole) as shown in figure.
7. Connect the Digital voltmeter to TP201.
8. Press the “ ▶ ” button, then display the ON sign at the right side of A08 TENSION. At the same time the loading is started.
9. Confirm the DC voltage at TP201 is in the specification. If it is not, adjust the sensor position as follows.
   Loosen the screw (A) and move the lever (D) with tweezers. After adjusting, press the “ ◀ ” button to set the unloading position.
10. Remove the VFK1208 (black with hole), and install the VFK1156 (Black) as same way as VFK1208.
11. Press the “ ▶ ” button to set the loading position.
12. Adjust the VR2 (GAIN) on the Mech. I/F board so that the DC voltage at TP201 is in the specification.

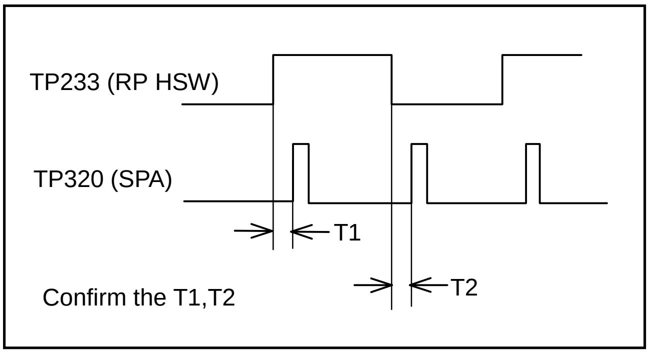

CONNECTOR (VJP1236T)
SHORT (PIN 1 ~ 8)
OPEN (PIN 9)


VFK1156 (Black) Play Position Tool
VFK1208 (Black with hole) Neutral Position Tool
Attach to surface
TENSION POST
TENSION REGURATOR P.C.BOARD
A
D

2-6. PG Shifter Adjustment

BOARD	SERVO (F7)
TP	TP233 (RP HSW) TP320 (SPA)
ADJ.	Service Menu
TAPE	VFM3580KM/KL
INPUT	-----
MODE	EJECT
M. EQ	Oscilloscope
SPEC.	T1, T2 = 126.4 ± 4µs

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the "SET" button to open the SERVO ADJUST MENU.
3. Select the **A05 PG SHIFT 25**.
4. Playback the color bar portions of the 25M alignment tape.
5. Press the "▶" button continuously until the numeric value displayed on the right side of PG shift 25 goes off one time. Release the "▶" button when the new numeric value has been updated.
6. Connect a scope to TP233 and TP320.
   Confirm the T1 and T2 are in the specification.
7. Close the menu.



3. RF/EQ (F8)

The adjustment of this section should be performed after adjusting the Servo (F7) board.

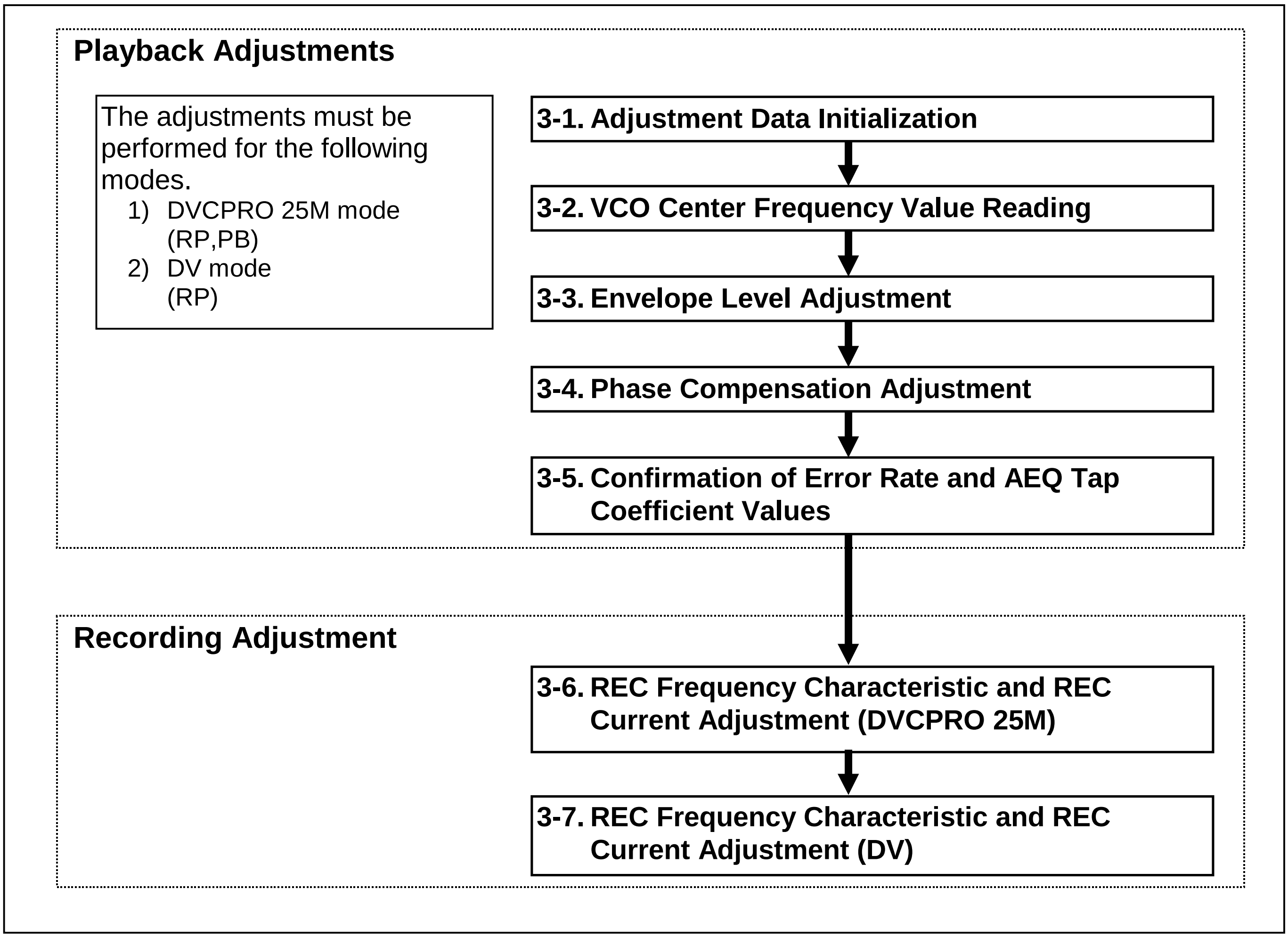
This adjustment mainly uses the Service Menu. The procedures for opening the menu, changing the settings and closing the menu are described below.

1. Opening the Service Menu
   a) Press the **“MENU”** button to open the set-up menu.
   b) Press the **“STOP”** button and **“EJECT”** button simultaneously and press the **“MENU”** button again.
   c) The Service Menu is superimposed on the VIDEO OUT 3 out put signal.

2. Changing the Setting
   Caution : The changing of the setting can only be performed when the tape is inserted.
   a) Press the **“▲ and/or ▼”** button and move the cursor (∗) to the desired setting or adjustment page and press the **“SET”** button to open the adjustment page.
   b) Press the **“▲ and/or ▼”** button and move the cursor (∗) to the desired setting or adjustment item and press the **“◀ and/or ▶”** button to change the setting value.

3. Closing the Service menu
   a) After the settings change is completed, press the MENU button to close the service menu.

Perform the adjustments of these items according to the following flowchart.



Playback Adjustments

The adjustments must be performed for the following modes.
1) DVCPRO 25M mode (RP,PB)
2) DV mode (RP)

3-1. Adjustment Data Initialization

3-2. VCO Center Frequency Value Reading

3-3. Envelope Level Adjustment

3-4. Phase Compensation Adjustment

3-5. Confirmation of Error Rate and AEQ Tap Coefficient Values

Recording Adjustment

3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)

3-7. REC Frequency Characteristic and REC Current Adjustment (DV)

3-1. Adjustment Data Initialization

Initialize the adjustment values for the following items before starting the adjustment. (It may not be possible to obtain the best values if the adjustment is performed without the initialized values.)

1. Insert the DVCPRO alignment tape. (VFM3580KM or (L)).
2. Open the Service Menu.
3. Open the **B00: RF ADJUST** in the Service Menu.
4. Open the **C00: PRO ADJUST** in the Service Menu.
5. Open the **C-4 DEFAULT** in the Service Menu.
6. Select **INIT LOAD**. And press the SET button to complete the initialization of the 25M mode adjustment values.
7. Press the MENU button two times and return to the RF ADJUST menu.
8. Insert the DV adjustment tape.
9. Open the **D00: DV ADJUST** in the Service Menu.
10. Open the **D-4 DEFAULT** in the Service Menu.
11. Select **INIT LOAD** and press the SET button to complete the initialization of the DV mode adjustment values.

3-2. VCO Center Frequency Value Reading

BOARD	RF/EQ (F8)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	-----
SPEC.	-----

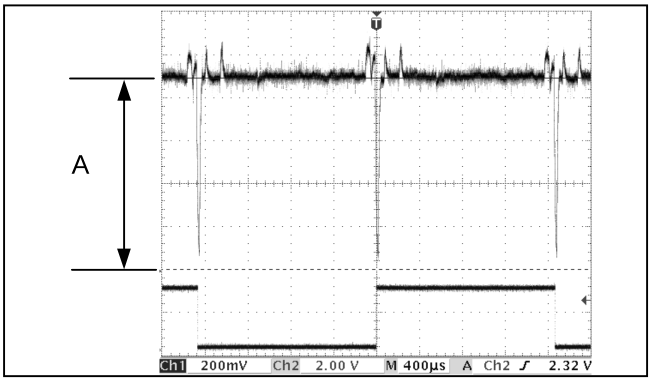
<Caution>
Set to the EJECT mode before performing the following operations.
(If the EJECT mode is not set and these operations described below are performed in the PLAY and REC mode, item 3-5 Confirmation of Error Rate and AEQ Tap Coefficient Values may be wrong. In this case, perform the procedures described in item 3-1. Adjustment Data Initialization.)

1. Open the Service Menu.
2. Open the **B00: RF ADJUST** in the Service Menu.
3. Open the **C00: PRO ADJUST** in the Service Menu.
4. Open the **C-2: RP ADJUST** in the Service Menu.
5. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
6. Press the SET button to set the **C: 19 VCO** adjustment value automatically.
7. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
8. Press the MENU button to return to the **C00: PRO ADJUST** menu.
9. Open the **C-3: PB ADJUT** in the Service Menu.
10. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
11. Press the SET button to set the **C19: VCO** adjustment value automatically.
12. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
13. Press the **“MENU”** button two times and return to the **RF ADJUST** menu.
14. Open **D00: DV ADJUST** in the Service Menu.
15. Open **D-2: RP ADUJST** in the Service Menu.
16. Select **D32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
17. Press the **SET** button to set the **D19: VCO** adjustment value automatically.
18. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.

3-3. Envelope Level Adjustment

BOARD	RF/EQ (F8)
TP	TP20, TP10, TP2 (Trigger)
ADJ.	Service Menu
TAPE	525(NTSC): VFM3580KM (L)/VFM3010EDS Alignment Tape (Color Bar)
INPUT	Color bar
MODE	PLAY
M. EQ	Oscilloscope
SPEC.	+0.8VDC ± 0.1VDC

1. Extend the RF/EQ (F8) board.
2. Connect the oscilloscope CH1 to TP20 (500mV/DIV, 1msec) and CH2 to TP2 (5V/DIV, 1msec). Set the Trigger channel to CH2. And set the 20MHz BW LIMIT to ON.
3. Play back the alignment tape (VFM3580KM (L)).
4. Open **B00 RF ADJUST** in the Service Menu.
5. Open **C00 PRO ADJUST** in the Service Menu.
6. Open **C-2: RP ADJUST** in the Service Menu.
7. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP20 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
8. Press the **"SET"** button when the adjustment is completed.
9. Change the connection of the oscilloscope CH1 to TP10 (500mV/DIV, 1msec).
10. Playback the alignment tape (VFM3580KM (L))
11. Open **B00 RF ADJUST** in the Service Menu.
12. Open **C00 PRO ADJUST** in the Service Menu.
13. Open **C-3: PB ADJUST** in the Service Menu.
14. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP10 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
15. Press the **"SET"** button when the adjustment is completed.
16. With the same connection of the oscilloscope, playback the DV alignment tape (VFM3010EDS).
17. Open **B00 RF ADJUST** in the Service Menu.
18. Open **D00 DV ADJUST** in the Service Menu.
19. Open **D-2: RP ADJUST** in the Service Menu.
20. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP10 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
21. Press the **"SET"** button when the adjustment in completed.



3-4. Phase Compensation Adjustment

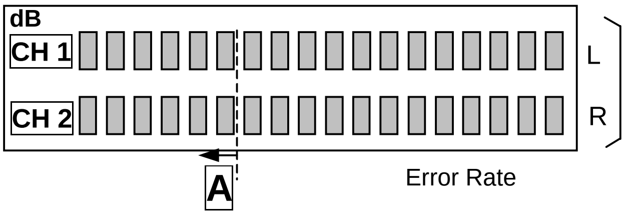
BOARD	RF/EQ (F8)
TP	Audiometer (Error Rate Display)
ADJ.	Service Menu.
TAPE	525(NTSC): VFM3580KM (L)/VFM3010EDS Alignment Tape (Color Bar)
INPUT	Color bar
MODE	PLAY
M. EQ	Oscilloscope
SPEC.	Error Rate = Minimum

1. Install to the circuit board that was extended in the previous adjustment item.
2. Insert the DVCPRO (VFM3580KM (L)) alignment tape and play it back.
3. Open the Service Menu.
4. Open the **B00: RF ADJUST** in the Service Menu.
5. Open the **C00: PRO ADJUST** in the Service Menu.
6. Open the **C-2: RP ADJUST** in the Service Menu.
7. Select the **C40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
8. Select **C41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
9. Adjust the **C01: RF PHS L** and **C02: RF PHS R** so that the error rate is at the minimum level.
   (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
   Press the **"SET"** button when the adjustment is completed.
10. Press the **"MENU"** button to return to the **C00: PRO ADJUST** in the Service Menu.
11. Open the **C-3: PB ADJUST** in the Service Menu.
12. Select the **C40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
13. Select **C41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
14. Adjust the **C01: RF PHS L** and **C02: RF PHS R** so that the error rate is at the minimum level.
    (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
    Press the **"SET"** button when the adjustment is completed.
15. Insert the DV alignment tape (VFM3010EDS) and play it back.
16. Open the **D00: DV ADJUST** in the Service Menu.
17. Open the **D-2: RP ADJUST** in the Service Menu.
18. Select the **D40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
19. Select the **D41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
20. Adjust the **D01: RF PHS L** and **D02: RF PHS R** so that the error rate is at the minimum level.
    (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
    Press the **"SET"** button when the adjustment is completed.

3-5. Confirmation of Error Rate and AEQ Tap Coefficient Values

BOARD	RF/EQ (F8)
TP	Audiometer (Error Rate Display).
ADJ.	Service Menu
TAPE	525(NTSC): VFM3580KM (L)/VFM3010EDS Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	-----
SPEC.	-----

1. Insert the DVCPRO alignment tape (VFM3580KM (L)) and play it back.
2. Open the Service Menu.
3. Open the **B00: RF ADJUST** in the Service Menu.
4. Open the **C00: PRO ADJUST** in the Service Menu.
5. Open the **C-2: RP ADJUST** in the Service Menu.
6. Select the **C44: ERROR MODE** and change the setting “FAST” to **“SLOW”**.
7. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **“A”** shown in the figure.
8. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
9. Press the **“SET”** button to set the AEQ tap coefficient automatically.
10. Select the **C32 IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
11. Press the **“MENU”** button to return to the **C00: PRO ADJUST** menu.
12. Open the **C-3: PB ADJUST** in the Service Menu.
13. Select the **C44: ERROR MODE** and change the setting from “OFF” to **“SINGLE”**.
14. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **“A”** shown in the figure.
15. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
16. Press the **“SET”** button to set the AEQ tap coefficient automatically.
17. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
18. Insert the DV alignment tape (VFM3010EDS) and play it back.
19. Open the **D00: DV ADJUST** in the Service Menu.
20. Open the **D-2: RP ADJUST** in the Service Menu.
21. Select the **D44: ERROR MODE** and change the setting from “FAST” to **“SLOW”**.
22. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **“A”** shown in the figure.
23. Select the **D32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
24. Press the **“SET”** button to set the AEQ tap coefficient automatically.
25. Select the **D31: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.



For changing the VIDEO/AUDIO error rate display, press the “DIAG” button.

CH1 Light Up : Audio Error Rate Display

CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

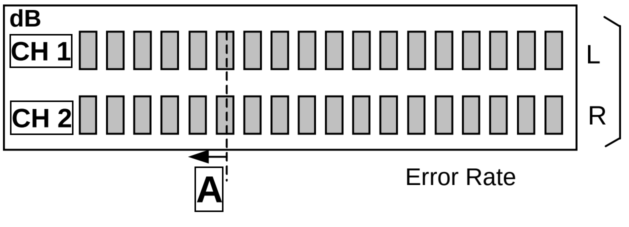
3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)

BOARD	EQ MAIN (H2)
TP	TP6, TP2 (Trigger) Audiometer (Error Rate Display)
ADJ.	Service Menu
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar) DVCPRO Recording tape
INPUT	Color bar
MODE	PLAY
M. EQ	Spectrum analyzer
SPEC.	-----

1. Set a spectrum analyzer as follows.

Parameter	25M Mode
REF LEVEL	-----
ATTEN	10dB
/DIV	2dB
START FREQ	0MHz
STOP FREQ	40MHz
RES BW	1MHz
VBW	1KHz
SWEEP TIME	150ms
V AVG	OFF
TRIG	EXT

2. Extend the RF/EQ (F8) Board. Connect the spectrum analyzer INPUT to **TP6** and the external trigger to **TP2**.
3. Insert the recording tape and record the color bar signal.
4. Open the Service Menu.
5. Open the **B00: RF ADJUST**.
6. Open the **C00: PRO ADJUST**.
7. Open the **C-1: REC ADJUST**.
8. Set the numerical value of **C01: REC CURR L** and **C03: REC CURR R** as follows.
   C01: REC CURR L→ +120
   C03: REC CURR R→ -120
9. Read (memorize) the spectrum at the confidence playback into the **TRACE B**, and continue to observe it with the **TRACE A**.
10. Adjust the **C01: REC CURR L** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **5MHz** portion is in the following specification.
    TRACE B – TRACE A : 1dB +1dB/-0dB.
    (After adjustment, memorize the adjustment value of the C01: REC CURR L.)
11. Adjust the **C02: REC FREQ L** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **20MHz** portion is in the following specification.
    TRACE B – TRACE A : 0dB +/-1dB.
12. Set the numerical value of **C01: REC CURR L** and **C03: REC CURR R** as follows.
    C01: REC CURR L→ -120
    C03: REC CURR R→ +120
13. Read (memorize) the spectrum at the confidence playback into the **TRACE B**, and continue to observe it with the **TRACE A**.
14. Adjust the **C03: REC CURR R** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **5MHz** portion is in the following specification.
    TRACE B – TRACE A : 1dB +1dB/-0dB.
    (After adjustment, memorize the adjustment value of the C03: REC CURR R.)
15. Adjust the **C04: REC FREQ R** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **20MHz** portion is in the following specification.
    TRACE B – TRACE A : 0dB +/-1dB.
16. For the **C01: REC CURR L** value and the **C03: REC CURR R** value that have been pre-adjusted in the steps 10 and 14, add +50 to them respectively for readjustment (fine adjustment).
17. Insert the recording tape and record the color bar signal approximately one minute and play it back.
18. Check that the error rate is less than **"A"** level of the figure. (When confirm the error rate, select **C44: ERROR MODE** and change the setting from **"FAST"** to **"SLOW"**.)
    Read (memorize) the playback spectrum into the **TRACE B**.
19. Insert the DVCPRO alignment tape (VFM3580KM (L)) and play it back.
20. Confirm that the level difference between the **TRACE B** (Memorized self-recording playback spectrum) and **TRACE A** (Alignment tape playback spectrum) at **5 MHz** is in the following specification.
    TRACE B – TRACE A : 0 dB +/- 2dB.



For changing the VIDEO/AUDIO error rate display, press the "DIAG" button.

CH1 Light Up : Audio Error Rate Display

CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

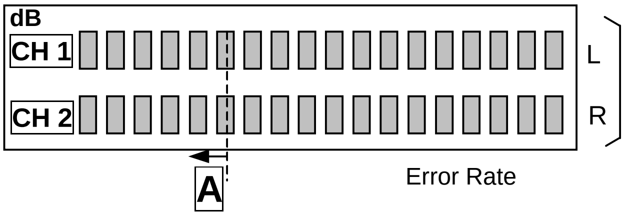
3-7. REC Frequency Characteristic and REC Current Adjustment (DV)

BOARD	EQ MAIN (H2)
TP	TP6, TP2 (Trigger) Audiometer (Error Rate Display)
ADJ.	Service Menu
TAPE	525(NTSC): VFM3010EDS Alignment Tape (Color Bar) DV Recording tape
INPUT	Color bar
MODE	PLAY
M. EQ	Spectrum analyzer
SPEC.	-----

1. Set a spectrum analyzer as follows.

Parameter	25M Mode
REF LEVEL	-----
ATTEN	10dB
/DIV	2dB
START FREQ	0MHz
STOP FREQ	40MHz
RES BW	1MHz
VBW	1KHz
SWEEP TIME	150ms
V AVG	OFF
TRIG	EXT

2. Extend the RF/EQ (F8) Board. Connect the spectrum analyzer INPUT to **TP6** and the external trigger to **TP2**.
3. Insert the DV recording tape and record the color bar signal.
4. Open the Service menu.
5. Open the **B00; RF ADJUST**.
6. Open the **D00: DV ADJUST**.
7. Open the **D-1: REC ADJUST**.
8. For the **C02: REC FREQ L** value and the **C04: REC FREQ R** value that have been adjusted in the steps of "3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)", add **+40** to them respectively for setting to the **D02: REC FREQ L** and the **D04: REC FREQ R**. (If the value exceeds +127 after addition, set to +120.)
9. Set the **D01: REC CURR L** and **D03: REC CURR R** to +20.
10. Insert the DV recording tape and record the color bar signal approximately one minute and play it back.
11. Check that the error rate is less than **"A"** level of the figure. (When confirm the error rate, select **D44: ERROR MODE** and change the setting from **"FAST"** to **"SLOW"**.)
    Read (memorize) the playback spectrum into the **TRACE B**.
12. Insert the DV alignment tape (VFM3010EDS) and play it back.
13. Confirm that the level difference between the **TRACE B** (Memorized self-recording playback spectrum) and **TRACE A** (Alignment tape playback spectrum) at **5 MHz** is in the following specification.
    TRACE B – TRACE A : 0 dB +/- 2dB.



For changing the VIDEO/AUDIO error rate display, press the "DIAG" button.

CH1 Light Up : Audio Error Rate Display

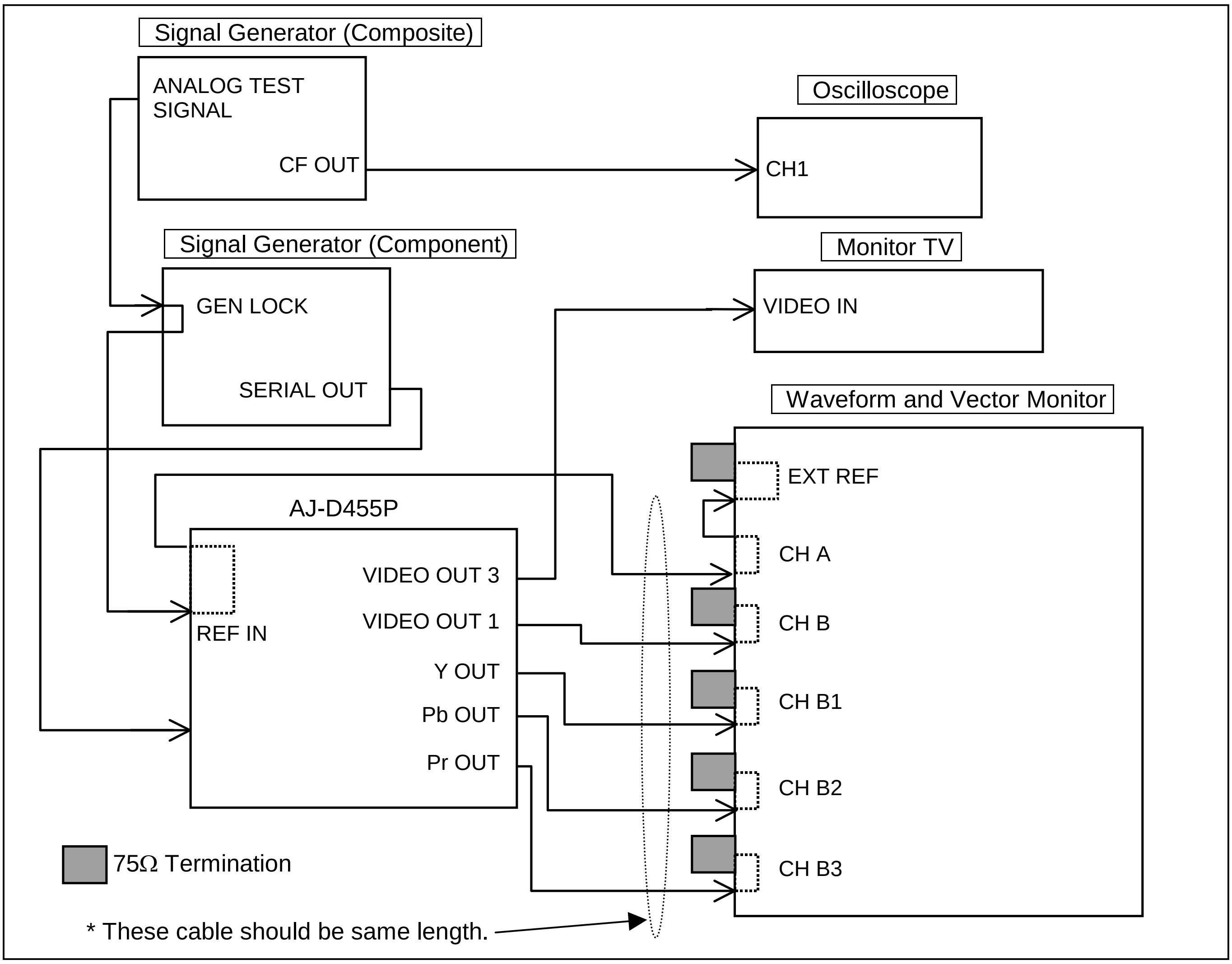
CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

4. V OUT (F2)

- 4-1. Connection
- 4-2. Reference PLL Center Frequency Adjustment
- 4-3. Reference CF Detection Adjustment
- 4-4. Composite Sync DC Level Adjustment
- 4-5. Composite Y Level Adjustment
- 4-6. Composite Y Level Adjustment
- 4-7. Composite YC Timing Adjustment
- 4-8. Composite C Gain Adjustment
- 4-9. System Sub-Carrier Phase Adjustment
- 4-10. Component Sync DC Adjustment
- 4-11. Component Y Level Adjustment
- 4-12. Component Pb Level Adjustment
- 4-13. Component Pr Level Adjustment
- 4-14. Component Y-Pb Timing Adjustment
- 4-15. Component Y-Pr Timing Adjustment

4-1. Connection


Signal Generator (Composite)
ANALOG TEST SIGNAL
CF OUT
Oscilloscope
CH1
Signal Generator (Component)
GEN LOCK
SERIAL OUT
Monitor TV
VIDEO IN
Waveform and Vector Monitor
EXT REF
CH A
CH B
CH B1
CH B2
CH B3
AJ-D455P
REF IN
VIDEO OUT 3
VIDEO OUT 1
Y OUT
Pb OUT
Pr OUT
75Ω Termination

* These cable should be same length.

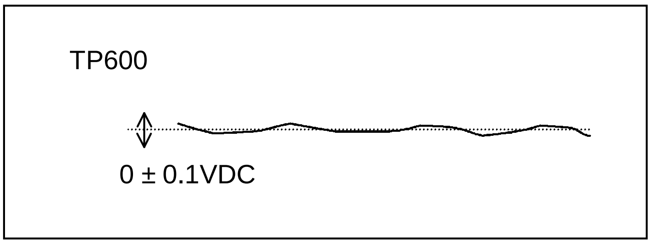
4-2. Reference PLL Center Frequency Adjustment

BOARD	V OUT (F2)
TP	TP600 (VCO)
ADJ.	VC600 (FREQ ADJ)
TAPE	-----
INPUT	REF VIDEO IN Analog Composite Signal (75% Color Bar with 7.5% Set-Up)
MODE	-----
M. EQ	Oscilloscope
SPEC.	DC Level: 0 ± 0.1VDC

1. Adjust VC600 so that the DC voltage at TP600 is in the specification.

<Note>

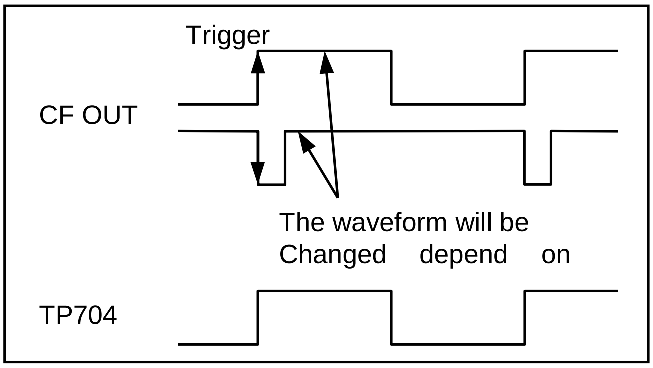
When the hand and so on approach too much near VC600 in adjustment, the DC voltage sometimes shifts.


TP600
0 ± 0.1VDC

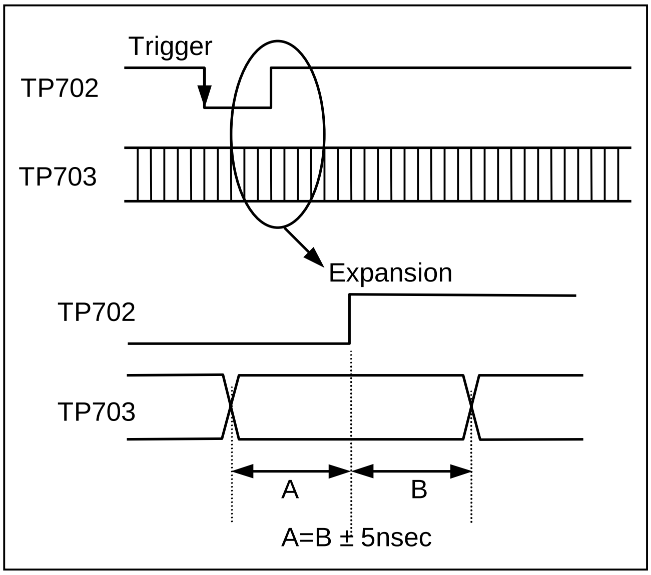
4-3. Reference CF Detection Adjustment

BOARD	V OUT (F2)
TP	Composite Signal CF OUT, TP704 (CF) TP702 (CF_TP2), TP703 (CF_TP1)
ADJ.	VR560 (SCH DET)
TAPE	-----
INPUT	REF VIDEO IN Analog Composite Signal (75% Color Bar with 7.5% Set-Up)
MODE	-----
M. EQ	Oscilloscope
SPEC.	See Figure, A=B ± 5nsec

1. Connect the oscilloscope CH1 to the CF output of composite signal generator and CH2 to TP704.
2. Adjust VR560 so that the phase is synchronized between CF pulses and TP704 as shown in figure.
   And confirm that the "SCH_ON (C-1)" LED on the board is turned on.


Trigger
CF OUT
The waveform will be Changed depend on
TP704

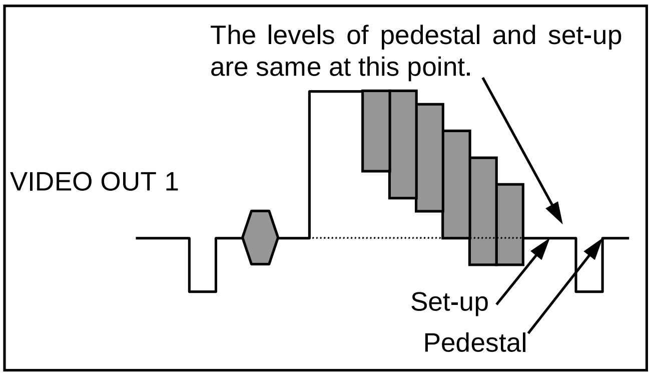
3. Connect the oscilloscope CH1 to TP702 and CH2 to TP703.
4. Expand (delay) the rising edge of TP702.
5. Slowly and slightly rotate VR560 so that the rising edge of TP702 is positioned at the center of cross point between A and B of waveform at TP703.


Trigger
TP702
TP703
Expansion
TP702
TP703
A
B
A=B ± 5nsec

4-4. Composite Sync DC Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR452 (ENC SYNC DC)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	------
MODE	PLAY
M. EQ	Analog WFM
SPEC.	SET-UP LEVEL = PEDESTAL LEVEL ± 1 IRE

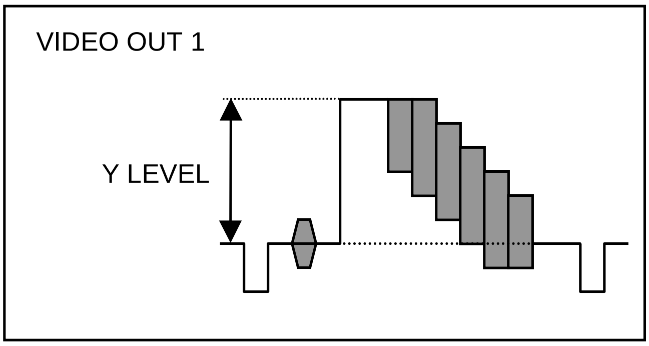
1. Open the SERVICE MENU.
2. Open the **F00: VIDEO ADJUST** in the Service Menu.
3. Set the **F11 V SETUP** to **ON**.
4. Open the SET-UP MENU.
5. Set the **613 SETUP (CMPST OUT)** to **THRU**.
6. Play back the alignment tape at the color bar portion.
7. Adjust VR452 so that the set-up level is the same level as the pedestal level.


The levels of pedestal and set-up are same at this point.
VIDEO OUT 1
Set-up
Pedestal

4-5. Composite Y Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR453 (ENC Y LEV)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y Level = 100 ± 1 IRE

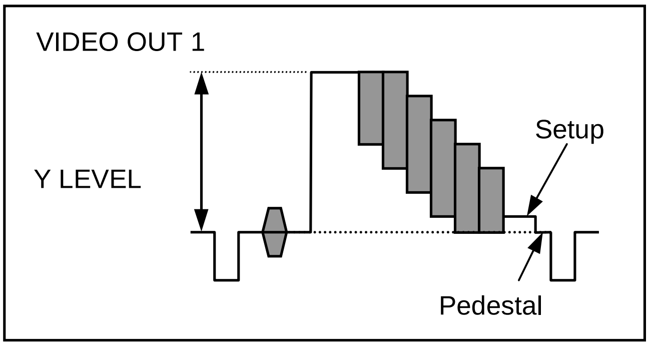
1. Play back the alignment tape at the color bar portion.
2. Adjust VR453 so that the Y level is in the specification.


VIDEO OUT 1
Y LEVEL

4-6. Composite Y Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR451 (SETUP)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y Level = 100 ± 1 IRE

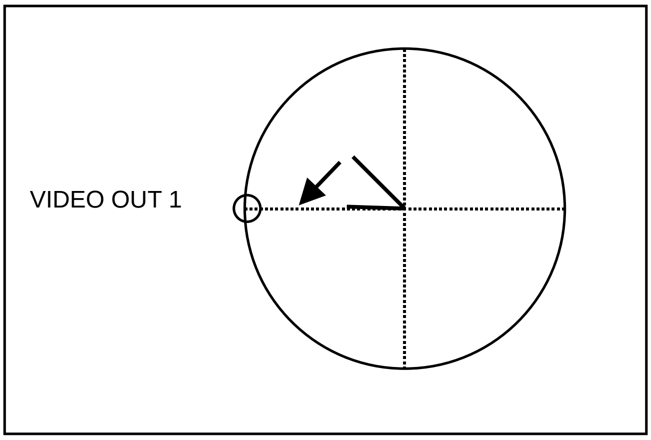
1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPST OUT)** to **ADD**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR451 so that the Y level is in the specification.


VIDEO OUT 1
Setup
Y LEVEL
Pedestal

4-7. Composite YC Timing Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR456 (ENC C DL)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM with SCH meter
SPEC.	SCH = 0 ± 1°

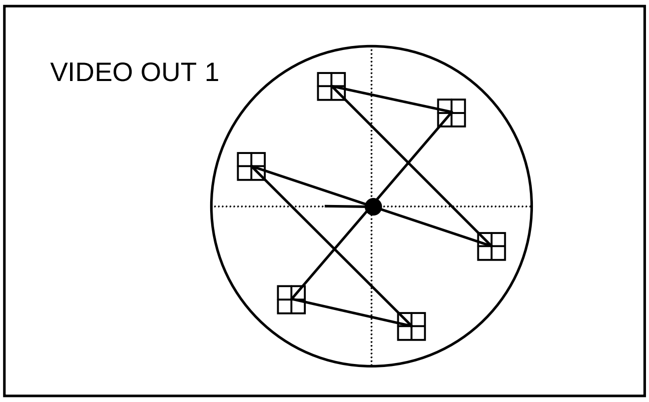
1. Adjust VR456 so that the SCH of VIDEO OUT 1 signal is in the specification.



4-8. Composite C Gain Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1
ADJ.	VR455 (ENC C LEV)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Vector Scope
SPEC.	All vector dots are in the inner box.

1. Set the burst position on the vector scope at correct position.
2. Adjust VR455 so that the all vector dots are in the inner box as shown in figure.



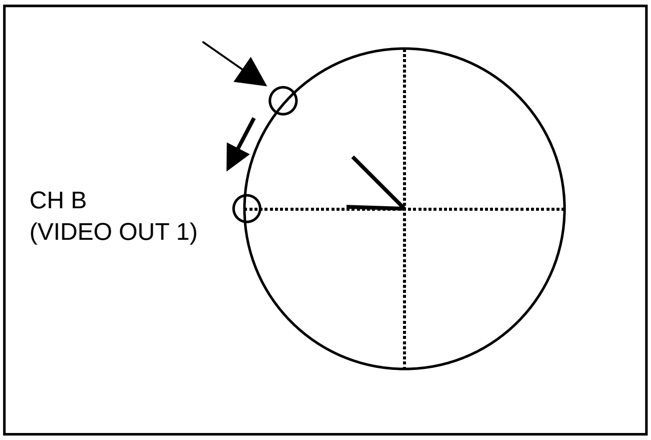
4-9. System Sub-Carrier Phase Adjustment

BOARD	V OUT (F2)
TP	REF IN (CH A), VIDEO OUT 1 (CH B)
ADJ.	VR600 (SYS SC)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM with SCH meter
SPEC.	SCH = 0 ± 1°

1. Adjust VR600 so that the SCH of the VIDEO OUT 1 (CHB) is same as EXT-REF-IN (CHA).

<Note>

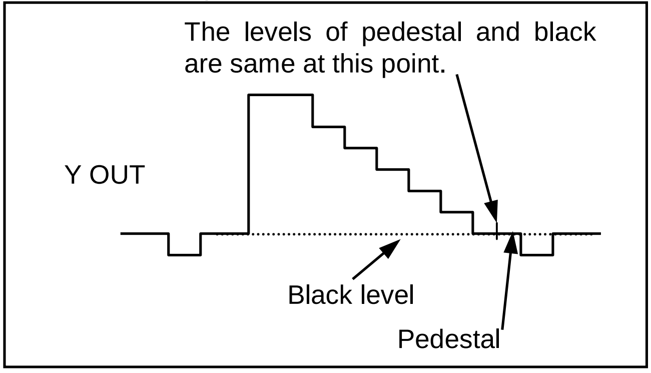
1. Confirm that the SCH indicator should be turned on when reference signal is inputted.
2. Set the WFM to SCH mode, and set the EXT reference mode.
   Observe the Reference signal (CHA) and adjust the PHASE VR of the WFM so that the SCH is correct portion before adjusting the VR600 as shown in figure.



4-10. Component Sync DC Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1)
ADJ.	VR301 (SYNC DC)
TAPE	525 (NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	SET-UP LEVEL = PEDESTAL LEVEL ± 5mV

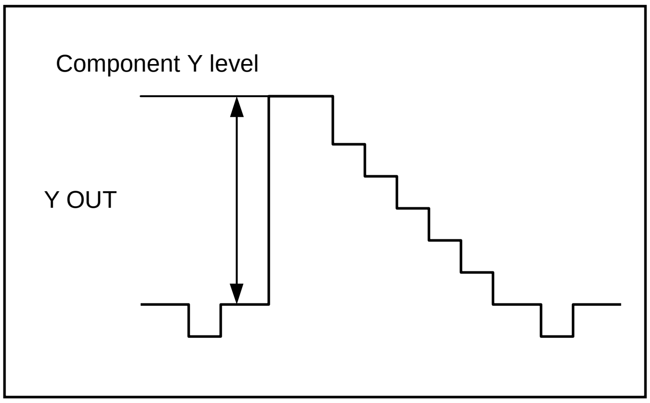
1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPNT OUT)** to **THRU** and **620 Pb/Pr OUT LV** to **βCAM**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR301 so that the black level is the same level as the pedestal level.


The levels of pedestal and black are same at this point.
Y OUT
Black level
Pedestal

4-11. Component Y Level Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1)
ADJ.	VR402 (Y LEV)
TAPE	525 (NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y level: 714 ± 5mV

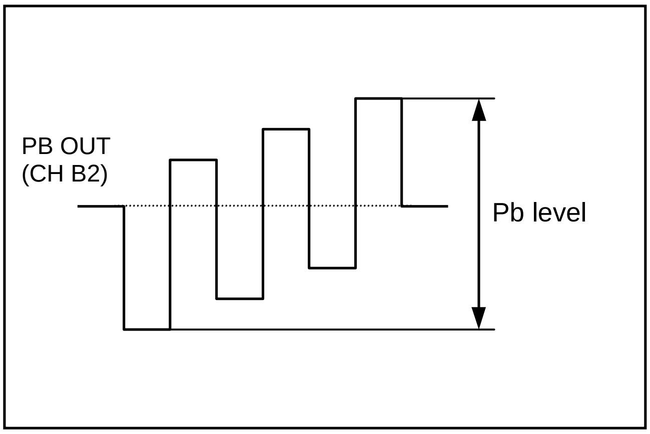
1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPNT OUT)** to **THRU** and **620 Pb/Pr OUT LV** to **βCAM**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR402 so that the Y level is in the specification.


Component Y level
Y OUT

4-12. Component Pb Level Adjustment

BOARD	V OUT (F2)
TP	Pb OUT (CH B2)
ADJ.	VR400 (PB LEV)
TAPE	525 (NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Pb level : 1009 ± 5mV

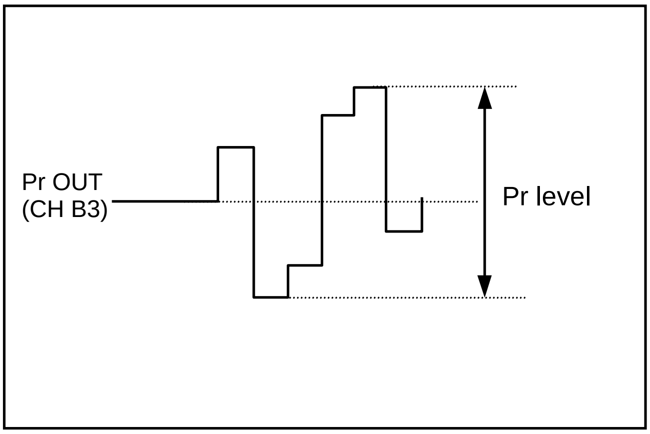
1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPNT OUT)** to **THRU** and **620 Pb/Pr OUT LV** to **βCAM**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR400 so that the Pb level is in the specification.



4-13. Component Pr Level Adjustment

BOARD	V OUT (F2)
TP	Pr OUT (CH B3)
ADJ.	VR401 (Pr LEV)
TAPE	525 (NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Pr level : 1009 ± 5mV

1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPNT OUT)** to **THRU** and **620 Pb/Pr OUT LV** to **βCAM**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR401 so that the Pr level is in the specification.



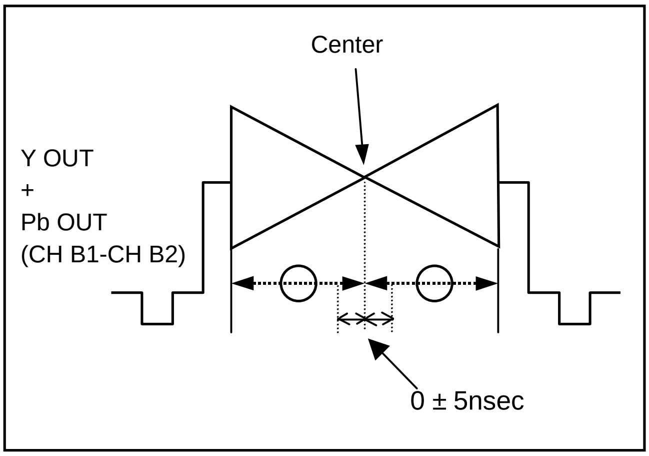
4-14. Component Y-Pb Timing Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1), Pb OUT (CH B2)
ADJ.	VR302 (Pb DL)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Bowtie portion)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Y Pb Timing : 0 ± 5nsec

1. Adjust VR302 so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).

<Note>

Incase of WFM does not have “Bowtie mode” (Y-Pb timing adjustment mode), if the oscilloscope has “ADD” and “INVERT” switch, it is possible to make the following waveform by those switch.



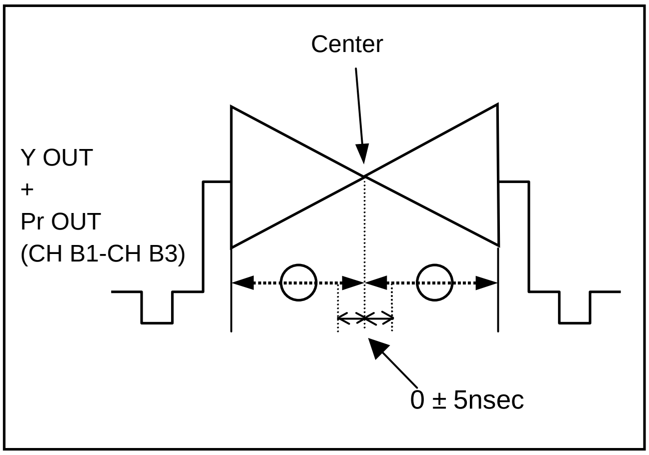
4-15. Component Y-Pr Timing Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1), Pr OUT (CH B3)
ADJ.	VR303 (Pr DL)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Bowtie portion)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Y Pr Timing : 0 ± 5nsec

1. Adjust VR302 so that the crossing point of the Bowtie signal becomes a center (Timing = 0± 5nsec).

<Note>

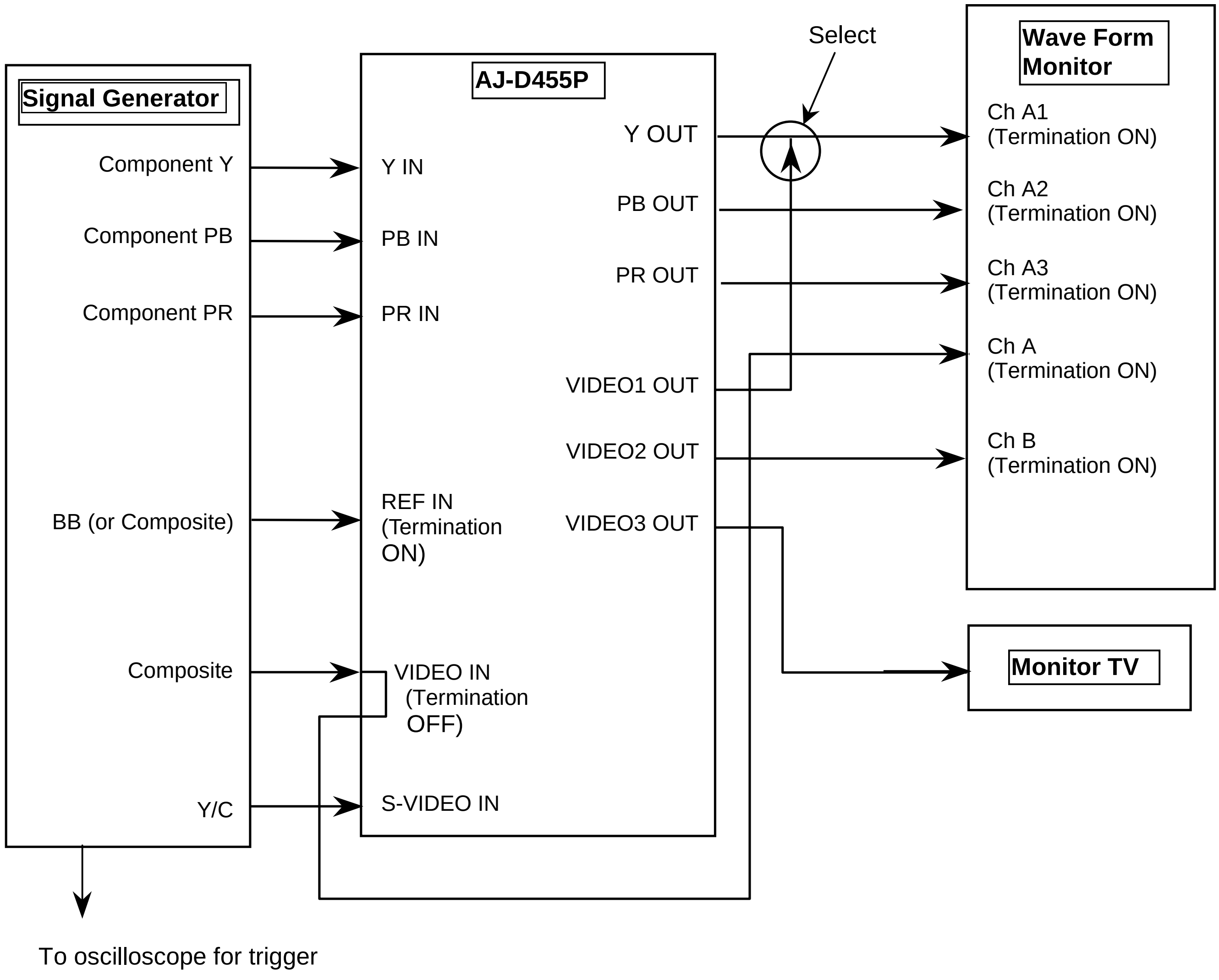
Incase of WFM does not have “Bowtie mode” (Y-Pb timing adjustment mode), if the oscilloscope has “ADD” and “INVERT” switch, it is possible to make the following waveform by those switch.



5. V IN (F5)

5-1. Connection and Menu Setting
5-2. PL DC Adjustment
5-3. Composite Color Demodulation Timing Adjustment
5-4. Composite SCH Detection Adjustment
5-5. Composite Color Demodulation Timing Adjustment
5-6. YC IN SCH Detection Adjustment
5-7. Component Y signal level Adjustment
5-8. Component Y Signal Offset level Adjustment
5-9. Component Pb Signal Offset level Adjustment
5-10. Component Pr signal Offset level Adjustment
5-11 Component Pb signal Level Adjustment
5-12. Component Pr Signal Level Adjustment
5-13. Component Pb Signal Timing Adjustment
5-14. Component Pr Signal Timing Adjustment
5-15. Composite Y signal Level Adjustment
5-16. Composite Y Signal Offset level Adjustment
5-17. Composite Pb Signal Offset level Adjustment
5-18. Composite Pr signal Offset level Adjustment
5-19. Composite Pb signal Level Adjustment
5-20. Composite Pr Signal Level Adjustment
5-21. Composite Pb/Pr Signal Timing Adjustment
5-22. Composite Video Out Phase Adjustment
5-23. Composite Vector Adjustment
5-24. Y Signal Level (YC IN) Adjustment
5-25. Y Signal Offset Level (YC IN) Adjustment
5-26. Pb Signal Offset level (YC IN) Adjustment
5-27. Pr Signal Offset level (YC IN) Adjustment
5-28. Pb signal Level (YC IN) Adjustment
5-29. Pr signal Level (YC IN) Adjustment
5-30. Pb/Pr Signal Timing (YC IN) Adjustment
5-31. YC IN Vector Adjustment

5-1. Connection and Menu Setting


Signal Generator
Component Y
Component PB
Component PR
BB (or Composite)
Composite
Y/C
AJ-D455P
Y IN
PB IN
PR IN
REF IN (Termination ON)
VIDEO IN (Termination OFF)
S-VIDEO IN
Y OUT
PB OUT
PR OUT
VIDEO1 OUT
VIDEO2 OUT
VIDEO3 OUT
Select
Wave Form Monitor
Ch A1 (Termination ON)
Ch A2 (Termination ON)
Ch A3 (Termination ON)
Ch A (Termination ON)
Ch B (Termination ON)
Monitor TV
To oscilloscope for trigger

<Caution>
Set the component output level of signal generator to β CAM level.

Set the SET-UP MENU as follows.

600: PB/PR IN LV β CAM
620: PB/PR OUT LV β CAM
613: SETUP (Select this item and Press the “STOP” button, then open the SETUP menu as follows.)
  00: CMPST IN THRU
  01: CMPST OUT THRU
  02: CMPNT IN THRU
  03: CMPNT OUT THRU

5-2. PL DC Adjustment

BOARD	V IN (F5)
TP	TP552 (PLL DC)
ADJ.	VC500 (VCO DC)
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	DC voltage : 0 ± 0.1V

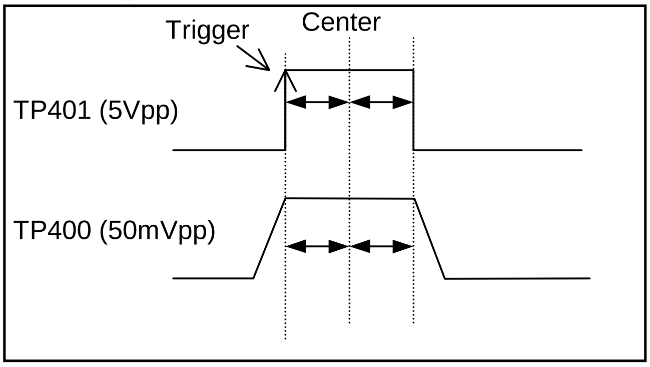
1. Connect the scope to TP552. And adjust VC500 so that the DC voltage is in the specification.

5-3. Composite Color Demodulation Timing Adjustment

BOARD	V IN (F5)
TP	TP400, TP401
ADJ.	VR401 (RSTH SITE), Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	Center

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Set the numerical value of the **E08 SITE CAXIS** to 127.
5. Connect the scope CH1 to TP401 and CH2 to TP400.
6. Adjust VR401 so that the timing of the center portion of these pulses becomes same timing.
7. Set the **E08 SITE CAXIS** to –27.
8. Close the menu.

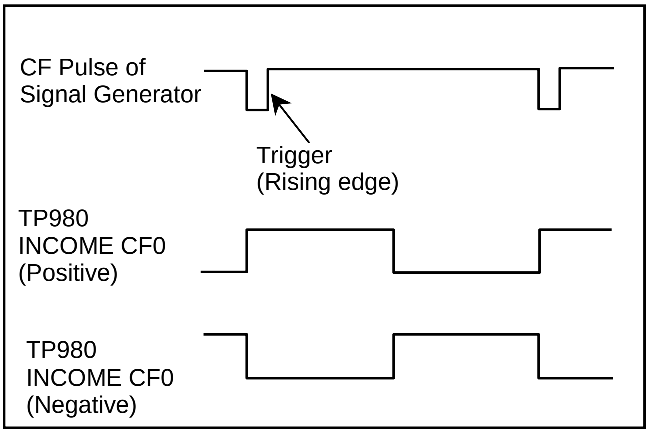
<Note>
After this adjustment, 5-*Composite Vector Adjustment should be performed.



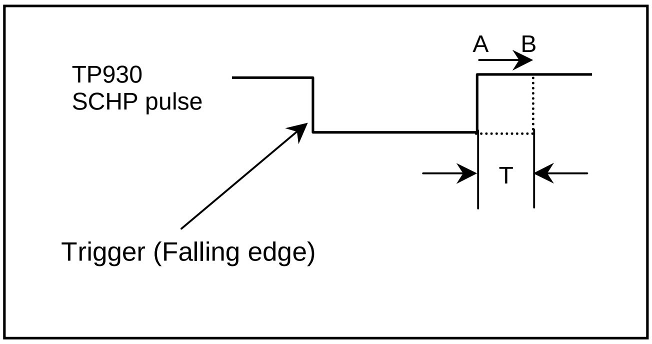
5-4. Composite SCH Detection Adjustment

BOARD	V IN (F5)
TP	TP980 (INCF), TP930 (SCHP)
ADJ.	VR402 (SCH SITE)
TAPE	-----
INPUT	CF Signal Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	T: 55 ± 5nsec

1. Connect the scope CH1 to TP980 and CH2 to CF Pulse of the signal generator. And set the trigger channel to CH2. (Triggered by rising edge.)
2. Set VR402 fully counterclockwise.
3. If income CF0 pulse of the TP980 is positive pulse, turn the VR402 clockwise until changing from positive to negative as shown bellow.
4. Turn the VR402 clockwise slowly until just changing from negative to positive as shown below.



5. Connect the scope CH1 to TP930.
6. Turn the VR402 clockwise slowly until the rising edge of the SCHP pulse (TP930) moves from "A" to "B" as shown below. The time difference "T" should be in the specification.



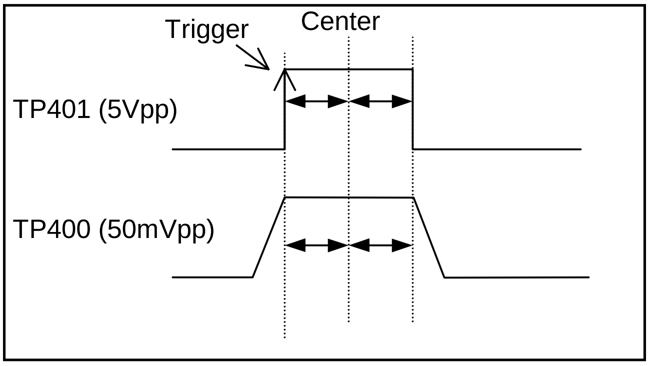
5-5. Composite Color Demodulation Timing Adjustment

BOARD	V IN (F5)
TP	TP400, TP401
ADJ.	VR403 (RSTH YC), Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	Center

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Set the numerical value of the **E08 YC CAXIS** to 127.
5. Connect the scope CH1 to TP401 and CH2 to TP400.
6. Adjust VR401 so that the timing of the center portion of these pulses becomes same timing.
7. Set the **E08 SITE CAXIS** to –27.
8. Close the menu.

<Note>

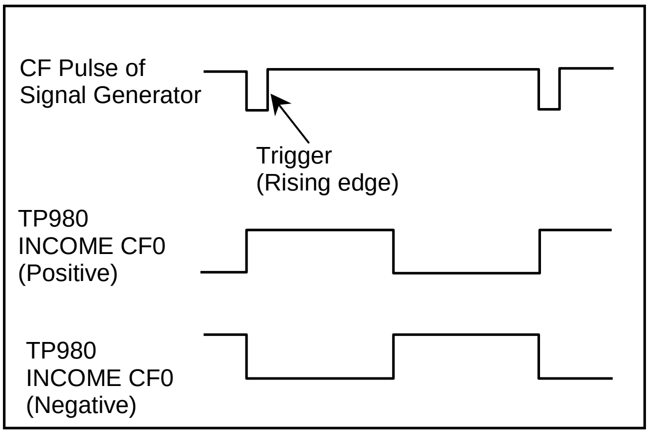
After this adjustment, 5-*Composite Vector Adjustment should be performed.


Trigger
Center
TP401 (5Vpp)
TP400 (50mVpp)

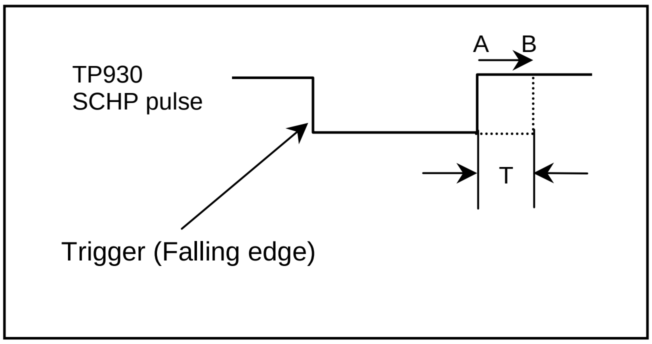
5-6. YC IN SCH Detection Adjustment

BOARD	V IN (F5)
TP	TP980 (INCF), TP930 (SCHP)
ADJ.	VR404 (SCH YC)
TAPE	-----
INPUT	CF Signal Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	T: 55 ± 5nsec

1. Connect the scope CH1 to TP980 and CH2 to CF Pulse of the signal generator. And set the trigger channel to CH2. (Triggered by rising edge.)
2. Set VR404 fully counterclockwise.
3. If income CF0 pulse of the TP980 is positive pulse, turn the VR404 clockwise until changing from positive to negative as shown bellow.
4. Turn the VR404 clockwise slowly until just changing from negative to positive as shown below.


CF Pulse of Signal Generator
Trigger (Rising edge)
TP980 INCOME CF0 (Positive)
TP980 INCOME CF0 (Negative)

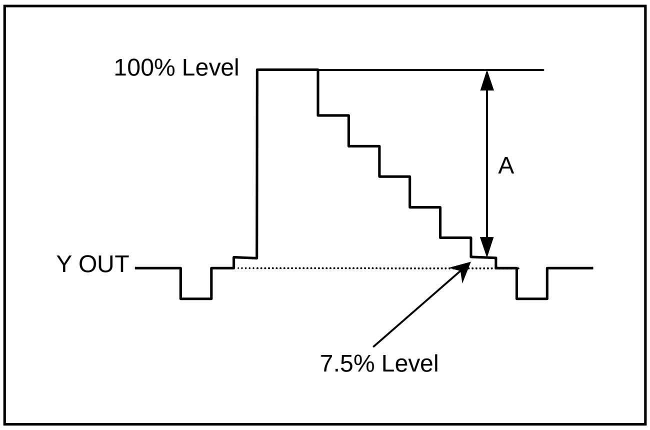
5. Connect the scope CH1 to TP930.
6. Turn the VR404 clockwise slowly until the rising edge of the SCHP pulse (TP930) moves from “A” to “B” as shown below. The time difference “T” should be in the specification.


A
B
TP930 SCHP pulse
T
Trigger (Falling edge)

5-7. Component Y signal level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar with 7.5% Set-up) βCAM Level
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal(100%←→7.5%) : 661 ± 3mV

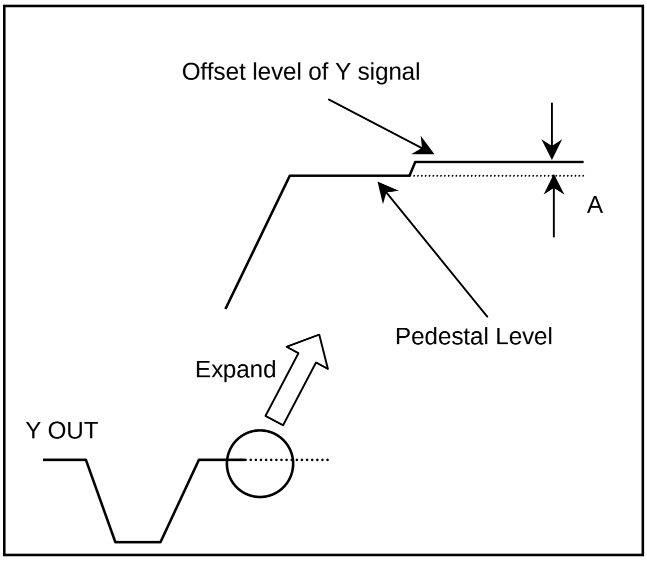
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E00 NENT Y GAIN** so that the level “A” is in the specification. (Level “A” is between 100% portion and 7.5% portion.)
5. Close the menu.



5-8. Component Y Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal: 0 ± 4mV

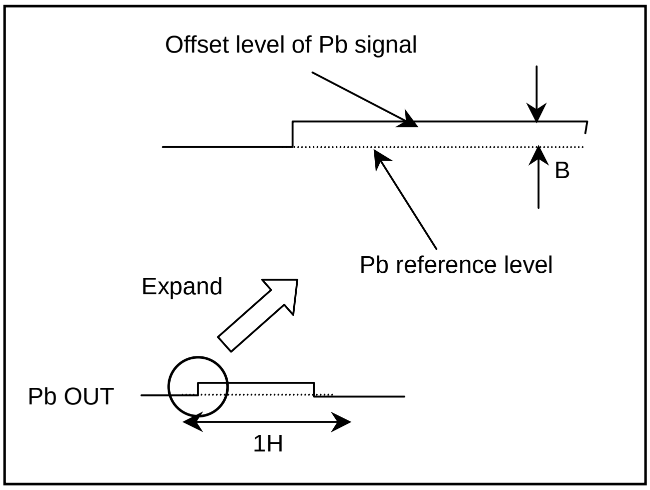
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E01 NENT Y OFS** so that the level “A” is in the specification. (Level “A” is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-9. Component Pb Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0 ± 4mV

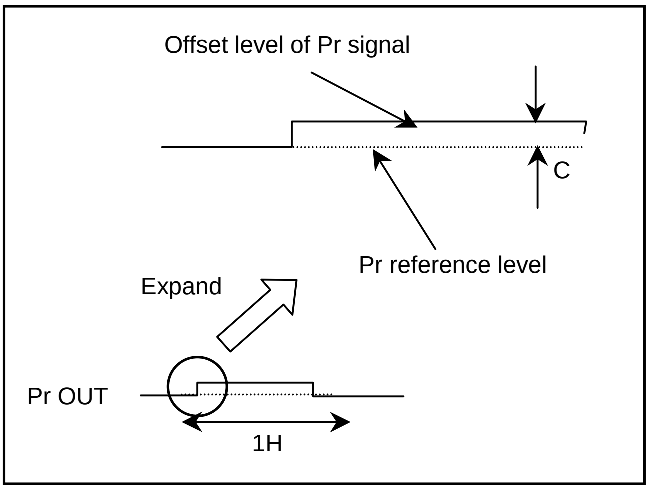
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E03 NENT PB OFS** so that the level "B" is in the specification. (Level "B" is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-10.Component Pr signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0 ± 4mV

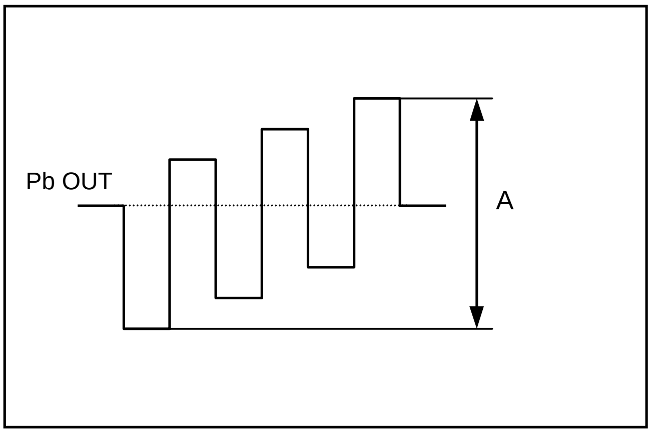
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E06 NENT PR OFS** so that the level "C" is in the specification. (Level "C" is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-11 Component Pb signal Level Adjustment

BOARD	V IN (F5)
TP	Component PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar with 7.5% Set-up) βCAM Level
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 933 ± 4mV

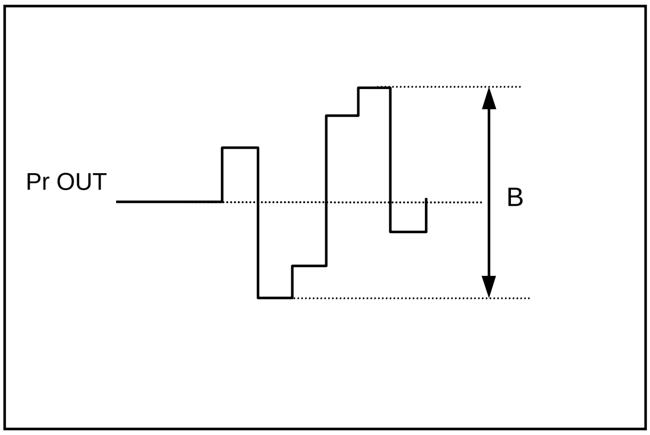
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E02 NENT PB GAIN** so that the level “A” is in the specification.
5. Close the menu.



5-12.Component Pr Signal Level Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar with 7.5% Set-up) βCAM Level
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 933 ± 4mV

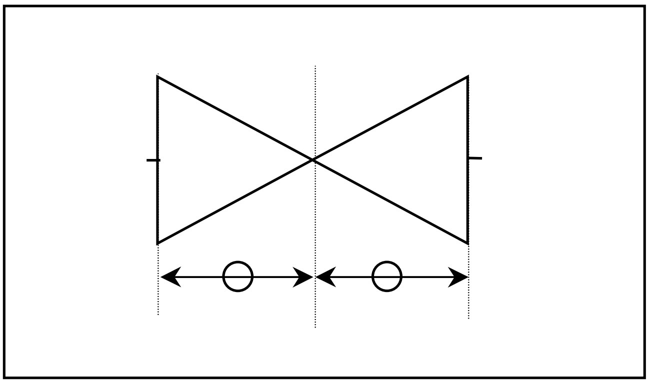
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E05 NENT PB GAIN** so that the level “B” is in the specification.
5. Close the menu.



5-13.Component Pb Signal Timing Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (Bowtie) βCAM Level
MODE	EE
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Relative Timing: 0 ± 5nsec

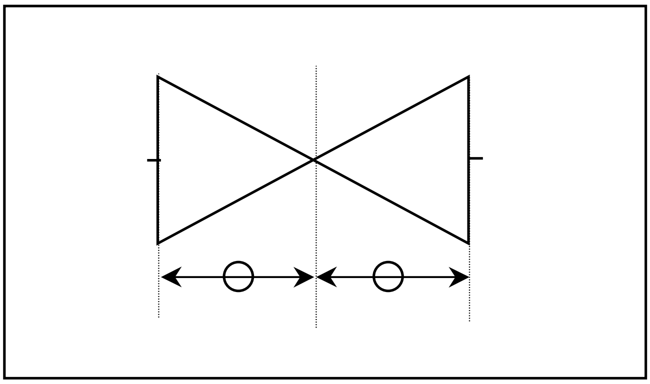
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E04 NENT PB TMG** so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).
5. Close the menu.



5-14.Component Pr Signal Timing Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (Bowtie) βCAM Level
MODE	EE
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Relative Timing: 0 ± 5nsec

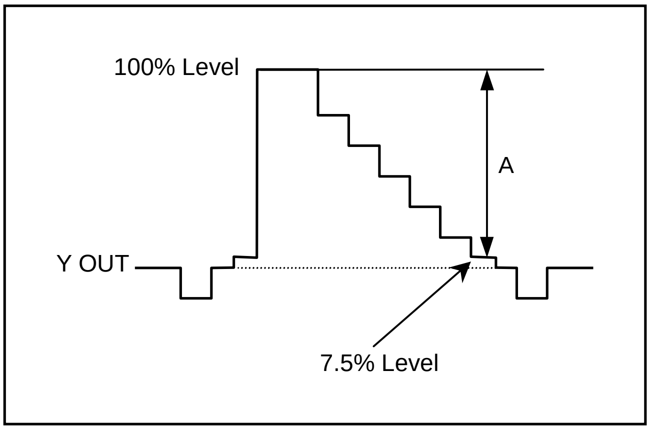
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E07 NENT PR TMG** so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).
5. Close the menu.



5-15.Composite Y signal Level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal (A)(100%←→7.5%) : 661 ± 3mV

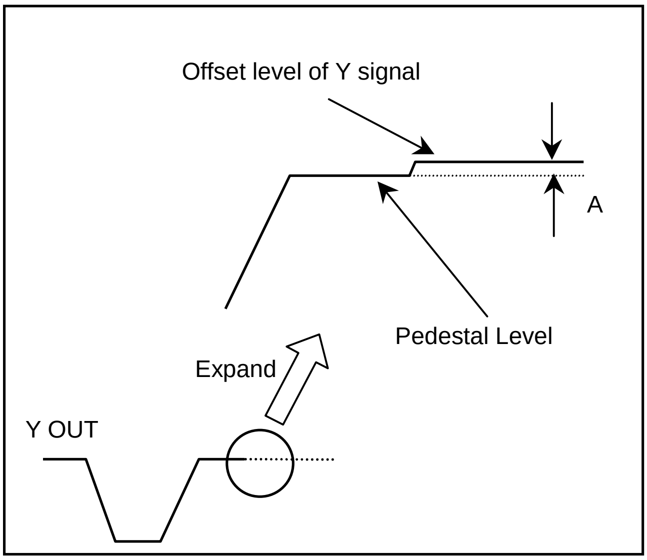
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E00 SITE Y GAIN** so that the level "A" is in the specification. (Level "A" is between 100% portion and 7.5% portion.)
5. Close the menu.



5-16.Composite Y Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal (A) : 0 ± 4mV

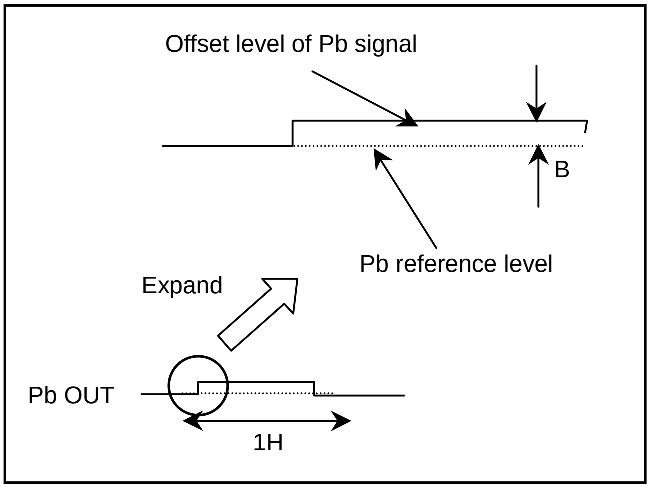
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E01 SITE Y OFS** so that the level "A" is in the specification. (Level "A" is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-17.Composite Pb Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0± 4mV

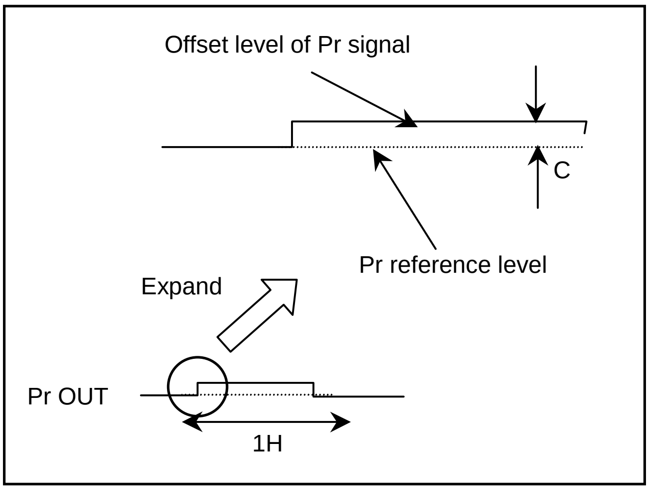
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E03 SITE PB OFS** so that the level “B” is in the specification. (Level “B” is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-18.Composite Pr signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0± 4mV

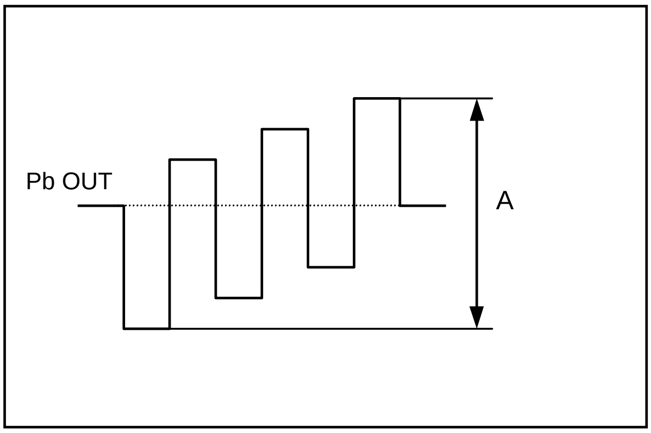
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E06 SITE PR OFS** so that the level “C” is in the specification. (Level “C” is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-19.Composite Pb signal Level Adjustment

BOARD	V IN (F5)
TP	Composite PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700± 4mV

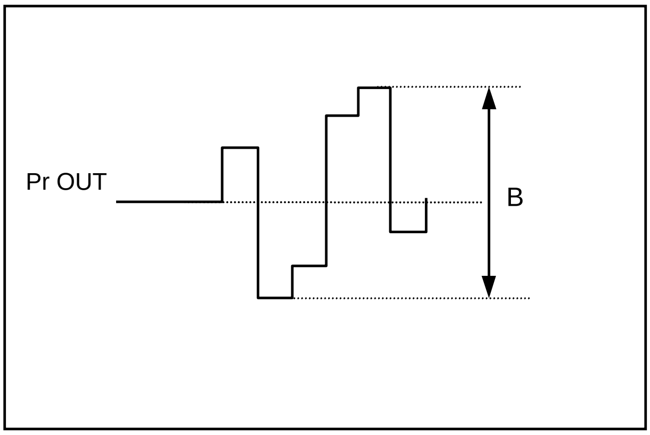
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E02 SITE PB GAIN** so that the level “A” is in the specification.
5. Close the menu.



5-20.Composite Pr Signal Level Adjustment

BOARD	V IN (F5)
TP	Composite PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700± 4mV

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E05 SITE PB GAIN** so that the level “B” is in the specification.
5. Close the menu.



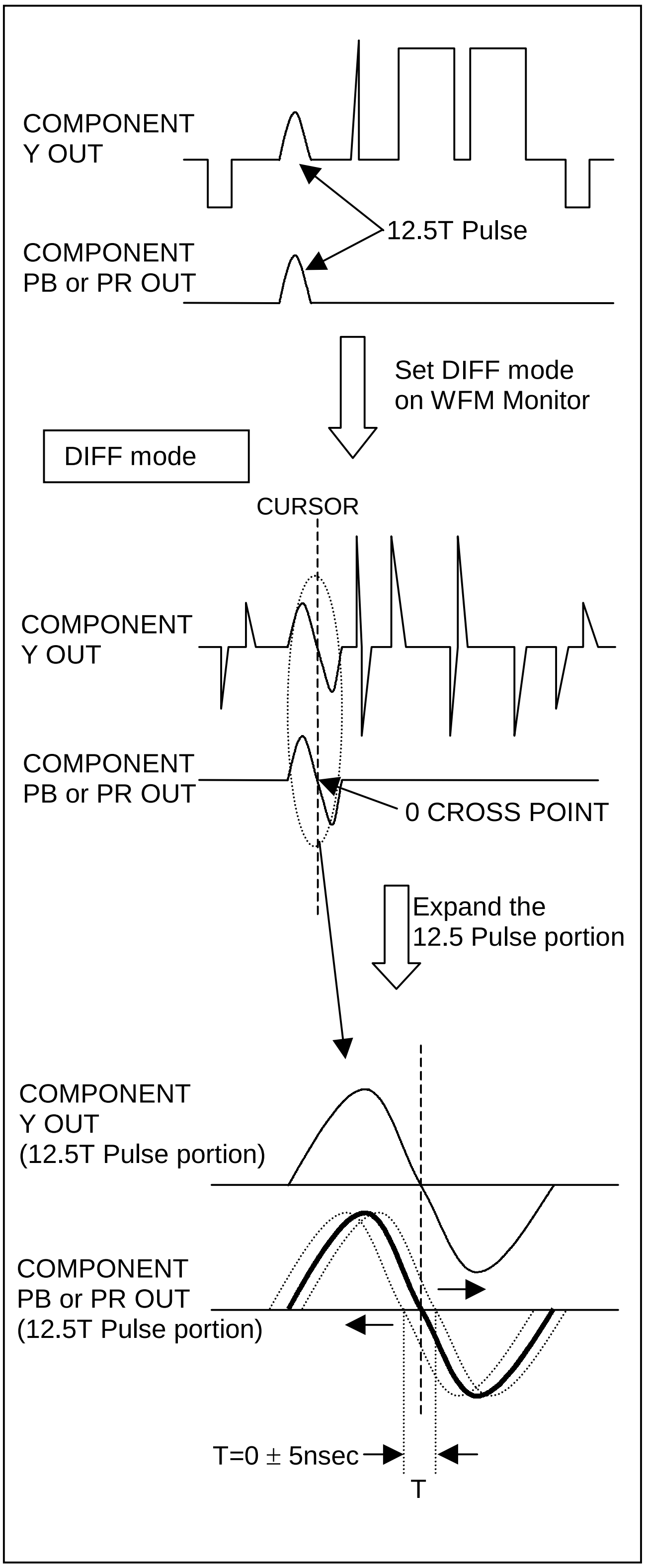
5-21.Composite Pb/Pr Signal Timing Adjustment

BOARD	V IN (F5)
TP	Y, Pr, Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM (DIFF mode)
SPEC.	T = 0± 5nsec

1. Confirm that the 12.5T modulation signal portion of Component Y OUT is displayed correctly on the WFM as shown in figure.
2. Confirm that the 12.5T modulation signal portion of Component PB and PR OUT is displayed correctly on the WFM as shown in figure.
3. Set WFM monitor to DIFF mode. In the DIFF mode, waveform of Y and PB or PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
5. Open the SERVICE MENU (Refer to SEC1 Service Information.)
6. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
7. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
8. Adjust the **E04 SITE PB TMG or E07 SITE PR TMG** so that the signal timing between Y and PB or PR signal is in specification.
9. Close the Menu.

NOTE:

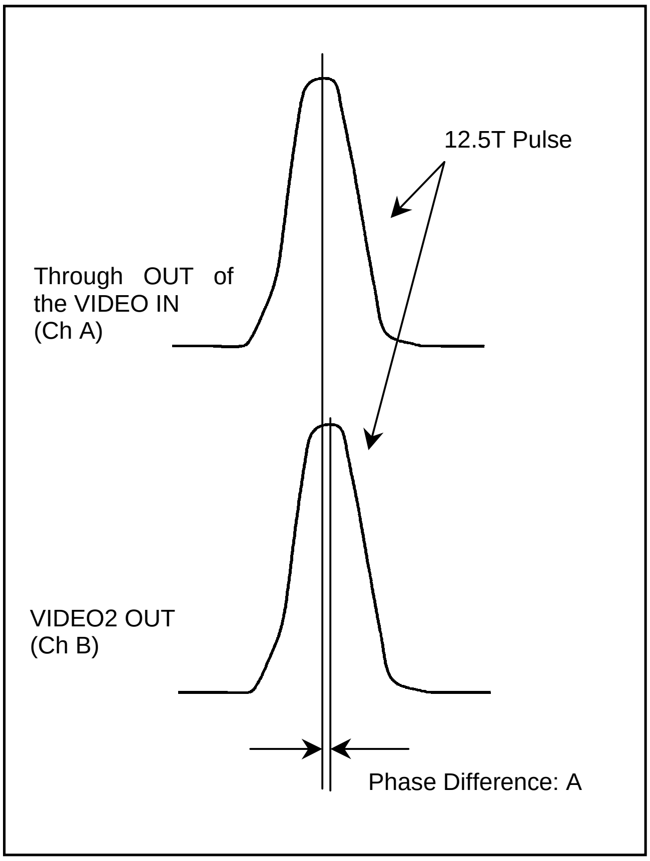
Please use WFM Monitor with DIFF mode.


COMPONENT Y OUT
COMPONENT PB or PR OUT
12.5T Pulse
Set DIFF mode on WFM Monitor
DIFF mode
CURSOR
COMPONENT Y OUT
COMPONENT PB or PR OUT
0 CROSS POINT
Expand the 12.5 Pulse portion
COMPONENT Y OUT (12.5T Pulse portion)
COMPONENT PB or PR OUT (12.5T Pulse portion)
T=0 ± 5nsec
T

5-22.Composite Video Out Phase Adjustment

BOARD	V IN (F5)
TP	VIDEO IN THRU VIDEO2 OUT
ADJ.	VR550 (SYNC0)
TAPE	-----
INPUT	Analog Composite Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM
SPEC.	Phase Difference A : 0 ± 10nsec

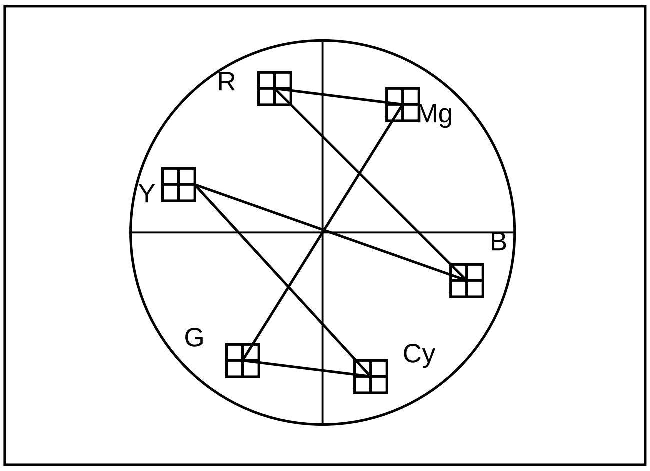
1. Adjust VR550 (SYNC0) so that the phase difference of 12.5T pulse between through out of the VIDEO IN and the VIDEO OUT 2 is in the specification.



5-23.Composite Vector Adjustment

BOARD	V IN (F5)
TP	VIDEO 1 OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Analog WFM
SPEC.	All vector dots are in the inner box

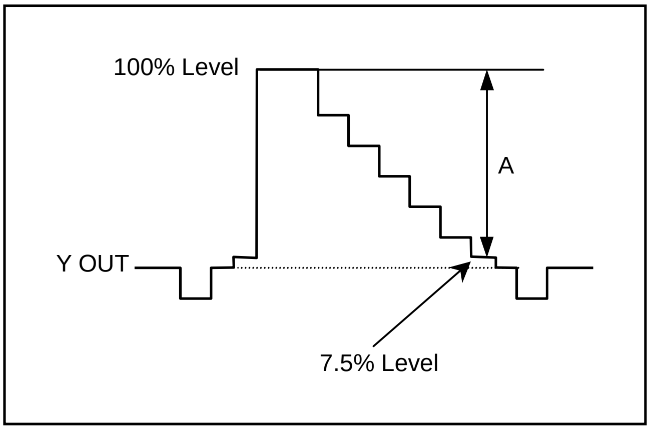
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust **E08 SITE CAXIS** so that the all vector dots are in the inner box.
5. Close the menu.



5-24.Y Signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal Level: 661 ± 3mV

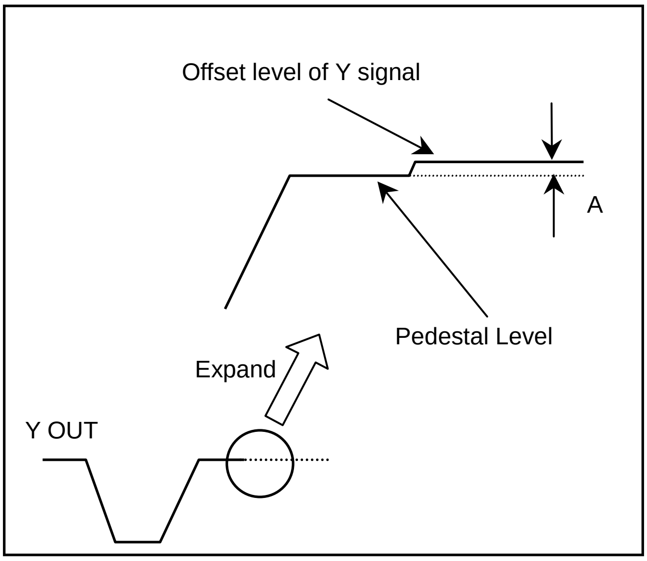
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E00 YC Y GAIN** so that the level “A” is in the specification. (Level “A” is between 100% portion and 7.5% portion.)
5. Close the menu.



5-25.Y Signal Offset Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal (A) : 0 ± 4mV

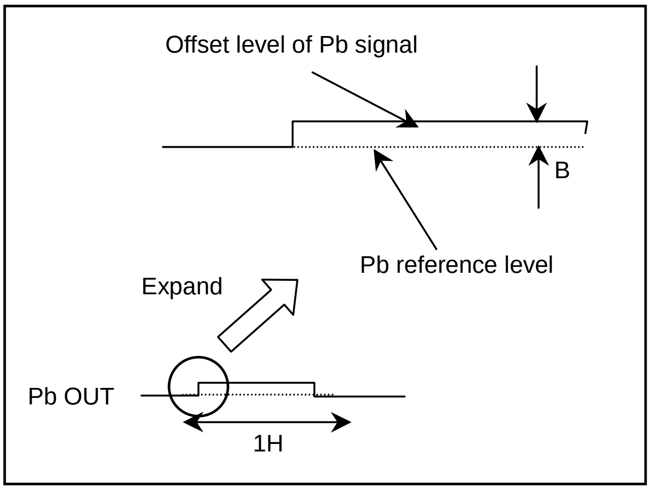
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E01 YC Y OFS** so that the level “A” is in the specification. (Level “A” is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-26.Pb Signal Offset level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0± 4mV

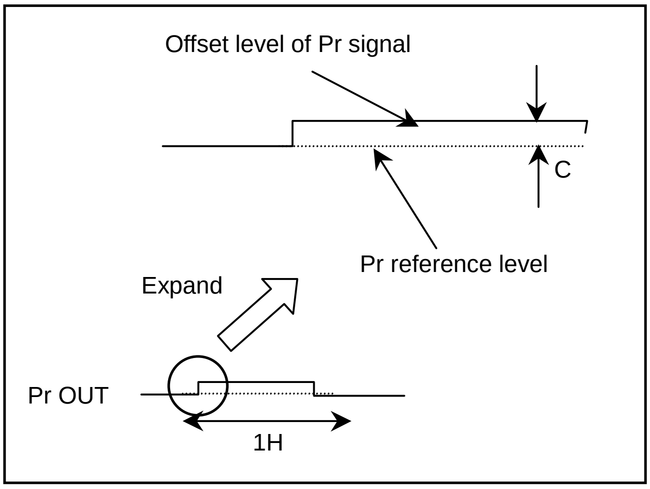
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E03 YC PB OFS** so that the level “B” is in the specification. (Level “B” is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-27.Pr Signal Offset level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0± 4mV

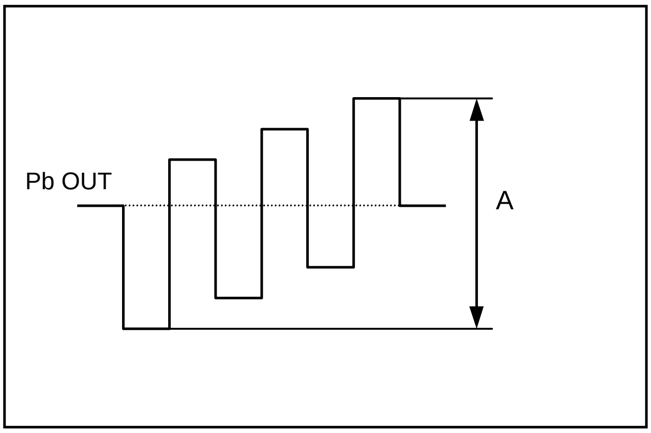
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E06 YC PR OFS** so that the level “C” is in the specification. (Level “C” is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-28.Pb signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700 ± 4mV

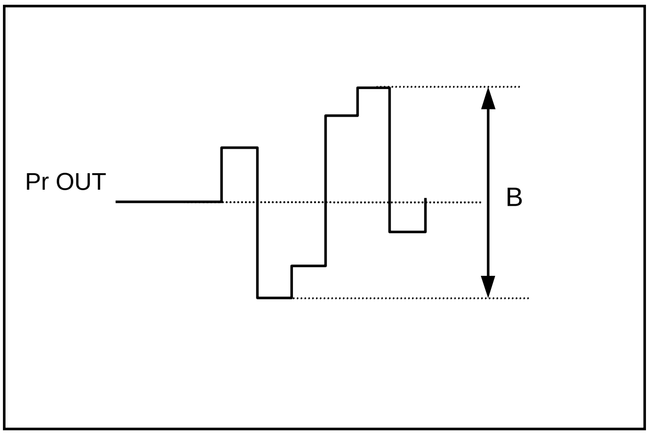
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E02 YC PB GAIN** so that the level “A” is in the specification.
5. Close the menu.



5-29.Pr signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700 ± 4mV

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E05 YC PR GAIN** so that the level “B” is in the specification.
5. Close the menu.

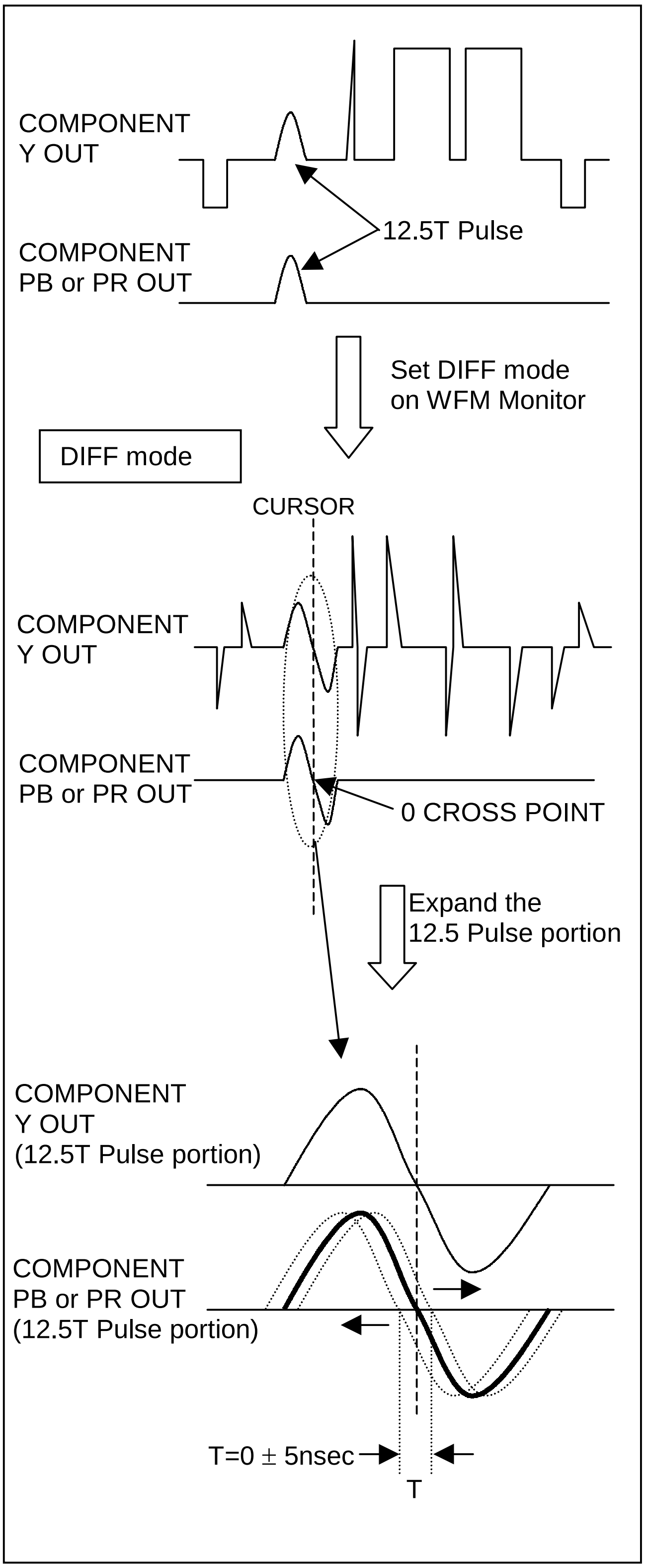


5-30.Pb/Pr Signal Timing (YC IN) Adjustment

BOARD	V IN (F5)
TP	Y, Pr, Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM (DIFF mode)
SPEC.	T = 0± 5nsec

1. Confirm that the 12.5T modulation signal portion of Component Y OUT is displayed correctly on the WFM as shown in figure.
2. Confirm that the 12.5T modulation signal portion of Component PB or PR OUT is displayed correctly on the WFM as shown in figure.
3. Set WFM monitor to DIFF mode. In the DIFF mode, waveform of Y and PB or PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
5. Open the SERVICE MENU (Refer to SEC1 Service Information.)
6. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
7. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
8. Adjust the **E04 YC PB TMG or E07 YC PR TMG** so that the signal timing between Y and PB or PR signal is in the specification.
9. Close the Menu.

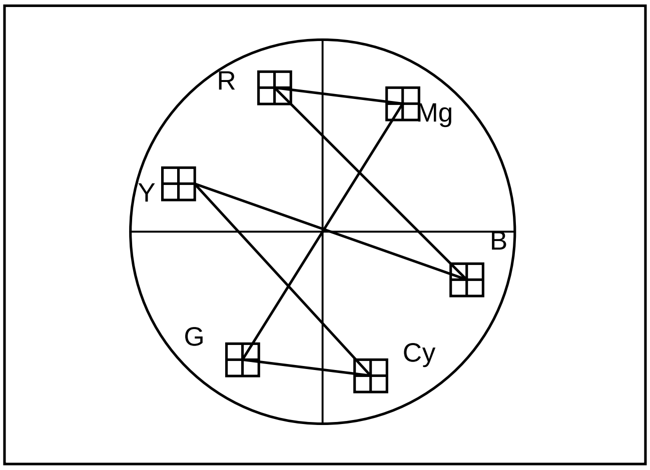
NOTE:
Please use WFM Monitor with DIFF mode.


COMPONENT
Y OUT
COMPONENT
PB or PR OUT
12.5T Pulse
Set DIFF mode
on WFM Monitor
DIFF mode
CURSOR
COMPONENT
Y OUT
COMPONENT
PB or PR OUT
0 CROSS POINT
Expand the
12.5 Pulse portion
COMPONENT
Y OUT
(12.5T Pulse portion)
COMPONENT
PB or PR OUT
(12.5T Pulse portion)
T=0 ± 5nsec
T

5-31.YC IN Vector Adjustment

BOARD	V IN (F5)
TP	VIDEO 1 OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC	All vector dots are in the inner box

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust **E08 YC CAXIS** so that the all vector dots are in the inner box.
5. Close the menu.



6. AUDIO (F1) and RF/CUE

6-1. Setting

1. Set the audio impedance switches on the Audio (F1) board as shown below.

SW100 : HIGH SW101 : HIGH

2. Set the Front Switch as shown bellow.

REC VR(CH1,CH2)	Center
Audio IN	ANALOG
REMOTE/LOCAL	LOCAL
HEAD PHONES	ST
HP VR	Center

1. Set the Audio Analyzer as shown below.

Audio Analyzer	
GENERATOR OUTPUT	50Ω (A&B, BAL, FLOAT)
ANALYZE CHA INPUT	100KΩ
ANALYZE CHB INPUT	100KΩ
UNIT SETTING	dBu

<Service Menu Setting>

1. Open the Service Menu. (Refer to SEC1 Service Information.)
2. Select the **G00: AUDIO ADJUST**.
3. Set the items as shown below

MENU	Setting
G01:REF LEVEL1	Fs-20
G02:REF LEVEL2	0dB
G03:REF LV INI	0dB
G09:LINE OUT CUE	OFF

<User Menu Setting>

1. Open the User Menu and set the items as shown below.

MENU	Setting
700 CH1 IN LEV	0dB
701 CH2 IN LEV	0dB
703 CH1 OUT LEV	0dB
704 CH2 OUT LEV	0dB
713 MONI CH SEL	AUTO1
714 REC CH1	CH1
715 REC CH2	CH2
716 REC CUE	CH1
718 DV OUTPUT	ST1
719 PB FADE	AUTO
720 EMBEDED AUD	ON
721 LINE CH SEL	PCM
722 INT SIG	OFF
725 CUE SLOW	STEP
731 DV REF LV	DV

6-2. CH1, CH2 Output Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1, CH2)
ADJ.	VR300 (CH1 OUT LV) VR301 (CH2 OUT LV)
TAPE	-----
INPUT	INT SIG
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 0.2dB

1. Set the SET-UP MENU as shown bellow.
   722 INT SIG : ON
2. Adjust VR300 so that the CH1 level is in the specification.
3. Adjust VR301 so that the CH2 level is in the specification.
4. Confirm that the level meter on the front panel is displayed at –20dB.

6-3. CH1, CH2 Input Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1, CH2)
ADJ.	VR200 (CH1 IN LV) VR201 (CH2 IN LV)
TAPE	-----
INPUT	LINE IN CH1,2 (1KHz 0dBu, Sinewave)
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 0.2dB

1. Adjust VR200 so that the CH1 level is in the specification.
2. Adjust VR201 so that the CH2 level is in the specification.

6-4. CUE BIAS CURRENT Adjustment

BOARD	RF/CUE
TP	TP4005 [RF/CUE Board] TP4006 (GND) [RF/CUE Board]
ADJ.	VR4001(BIAS), FL4001(Core)
TAPE	Blank Tape
INPUT	-----
MODE	REC
M. EQ	Oscilloscope, VTVM
SPEC.	7mVrms ± 0.5 mVrms

1. Set the VR4001 (BIAS) to the center position.
2. Connect the Vacuum Tube Volt Meter between TP4005 (HOT) and TP4006 (GND).
   Adjust FL4001 and VR4001 so that the voltage is in the specification.

6-5. CUE PB Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1)
ADJ.	Service Menu VR800 (PB LEVEL)
TAPE	VFM3580KM/KL
INPUT	-----
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 1.0dB

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **G00: AUDIO ADJUST** and press the “SET” button to open the AUDIO ADJUST MENU.
3. Set the **G09 LINE OUT CUE** to ON.

<Caution>
During this adjustment, do not close the Service Menu. The setting of G09 LINE OUT CUE will be reset to OFF automatically.

4. Playback the CUE level master tape (25M), and adjust VR800 (PB LEVEL) so that the LINE OUT CH1 level is in the specification.
5. Close the menu.

<Caution>
1. Clean the A/C head, before this adjustment is executed.
2. Confirm the tape path condition around A/C head.

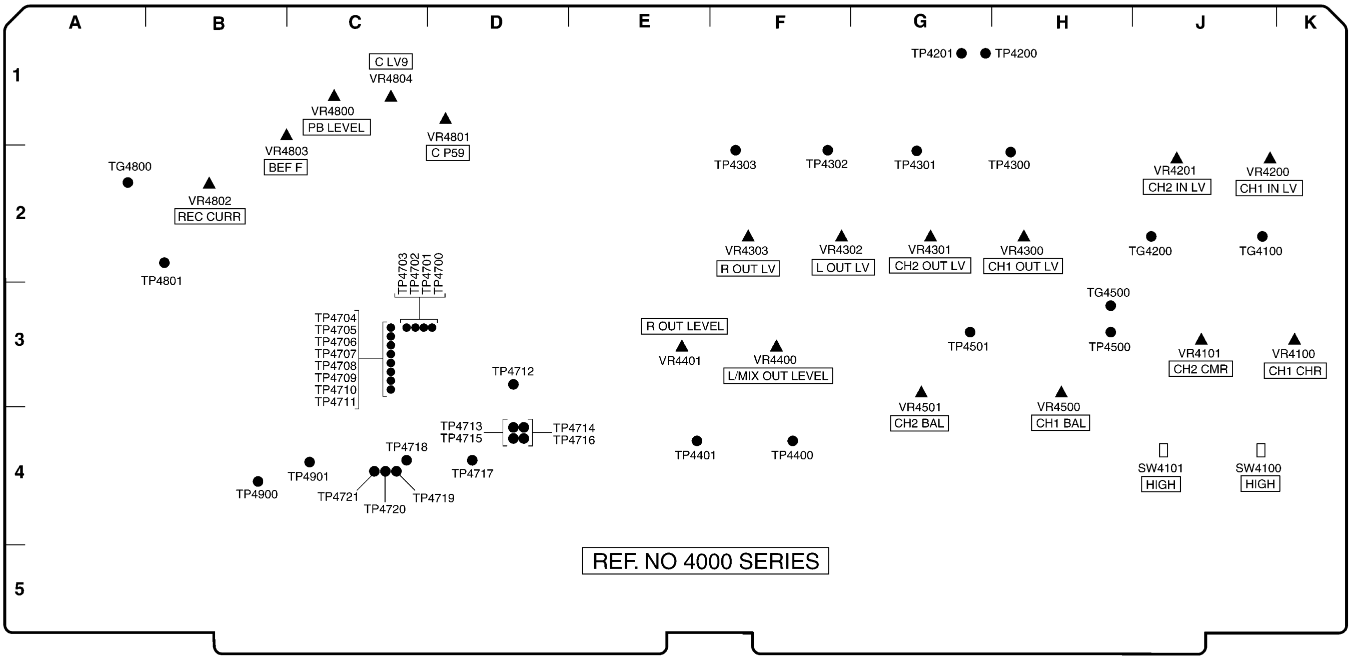
6-6. CUE REC/PB Level Adjustment

BOARD	AUDIO (F1)
TP	TP4005 [RF/CUE Board] TP4006 (GND) [RF/CUE Board] AUDIO OUT (CH1)
ADJ.	SERVICE MENU VR802 (REC CURR)
TAPE	Blank Tape
INPUT	AUDIO IN CH1,2 (1KHz 0dBu Sinewave)
MODE	SELF-REC / PLAY
M. EQ	Oscilloscope, Monitor TV Audio Analyzer, VTVM
SPEC.	0dBu ± 1.0dB

1. Open the SET UP MENU by pressing the “MENU” button.
2. Select the “**716 REC CUE**” item and set it to the CH1. After that press the “SET” button.
3. Supply a 1kHz, 0dBu sinewave signal into the AUDIO IN (Both CH1 and CH2) and record the input signal for few minutes.
4. Playback the just recorded portions and confirms that the AUDIO OUT (CH1) is in the specification.
5. If it is not, slightly adjust VR802 and then repeat step 3 to 5 until it is in the specification.

7. TP, VR, SW Location

F1 AUDIO P.C.BOARD (VEP84374A)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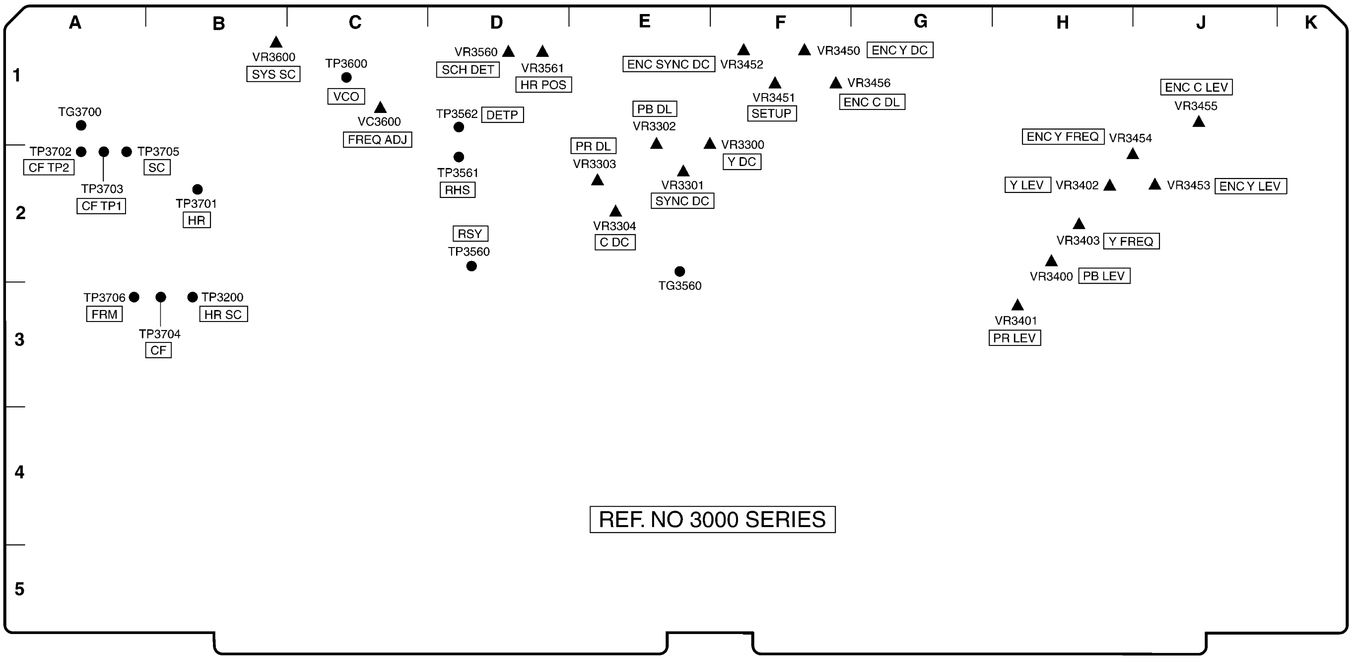
C LV9
VR4804
TP4201
TP4200
VR4800
PB LEVEL
VR4801
C P59
VR4803
BEF F
TG4800
VR4802
REC CURR
TP4303
TP4302
TP4301
TP4300
VR4201
CH2 IN LV
VR4200
CH1 IN LV
TP4801
VR4303
R OUT LV
VR4302
L OUT LV
VR4301
CH2 OUT LV
VR4300
CH1 OUT LV
TG4200
TG4100
TP4703
TP4702
TP4701
TP4700
TG4500
TP4704
TP4705
TP4706
TP4707
TP4708
TP4709
TP4710
TP4711
R OUT LEVEL
VR4401
VR4400
L/MIX OUT LEVEL
TP4501
TP4500
VR4101
CH2 CMR
VR4100
CH1 CHR
TP4712
VR4501
CH2 BAL
VR4500
CH1 BAL
TP4713
TP4715
TP4714
TP4716
TP4718
TP4401
TP4400
SW4101
HIGH
SW4100
HIGH
TP4901
TP4717
TP4900
TP4721
TP4720
TP4719
REF. NO 4000 SERIES

COMPONENT SIDE

F2 V OUT P.C.BOARD (VEP83557A)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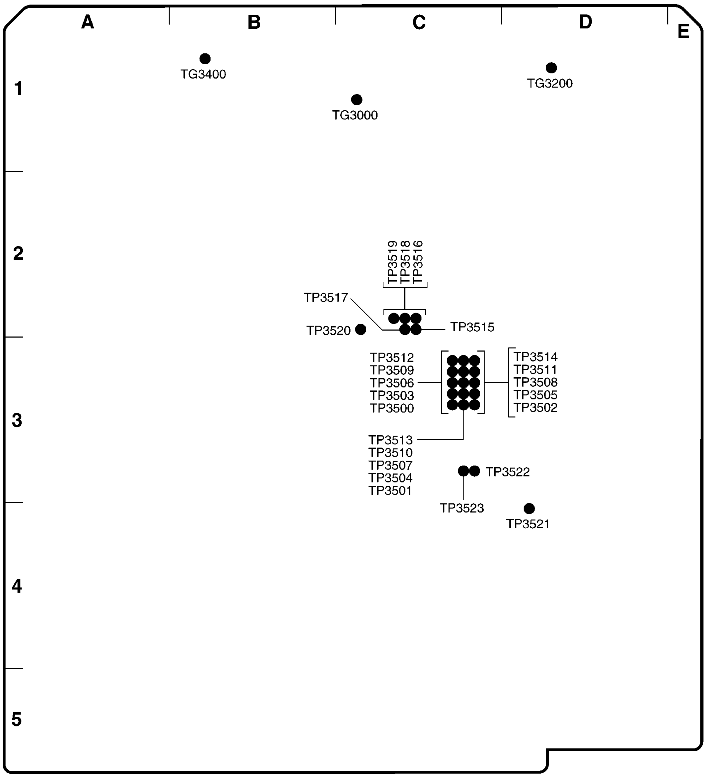
SYS SC
TP3600
VCO
VR3560
SCH DET
VR3561
HR POS
ENC SYNC DC
VR3452
VR3450
ENC Y DC
VR3451
SETUP
VR3456
ENC C DL
ENC C LEV
VR3455
TG3700
VC3600
FREQ ADJ
TP3562
DETP
PB DL
VR3302
ENC Y FREQ
VR3454
TP3702
CF TP2
TP3705
SC
PR DL
VR3303
VR3300
Y DC
TP3703
CF TP1
TP3701
HR
TP3561
RHS
VR3301
SYNC DC
Y LEV
VR3402
VR3453
ENC Y LEV
RSY
TP3560
VR3304
C DC
VR3403
Y FREQ
VR3400
PB LEV
TG3560
TP3706
FRM
TP3200
HR SC
TP3704
CF
VR3401
PR LEV
REF. NO 3000 SERIES

COMPONENT SIDE

F3A SDI P.C.BOARD (VEP83558A) (AJ-YA455P)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TG3400
TG3000
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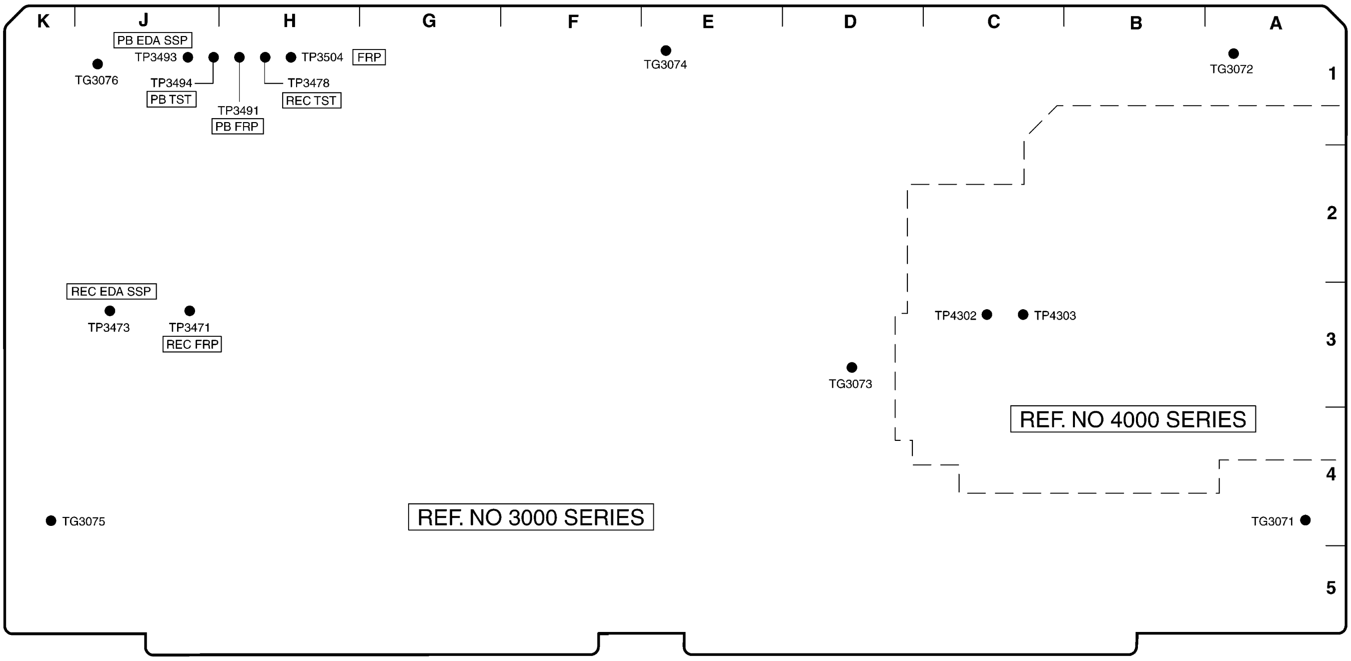
TP3520
TP3515
TP3512
TP3509
TP3506
TP3503
TP3500
TP3514
TP3511
TP3508
TP3505
TP3502
TP3513
TP3510
TP3507
TP3504
TP3501
TP3522
TP3523
TP3521

COMPONENT SIDE

F4 D PROC P.C.BOARD (VEP83554A)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A
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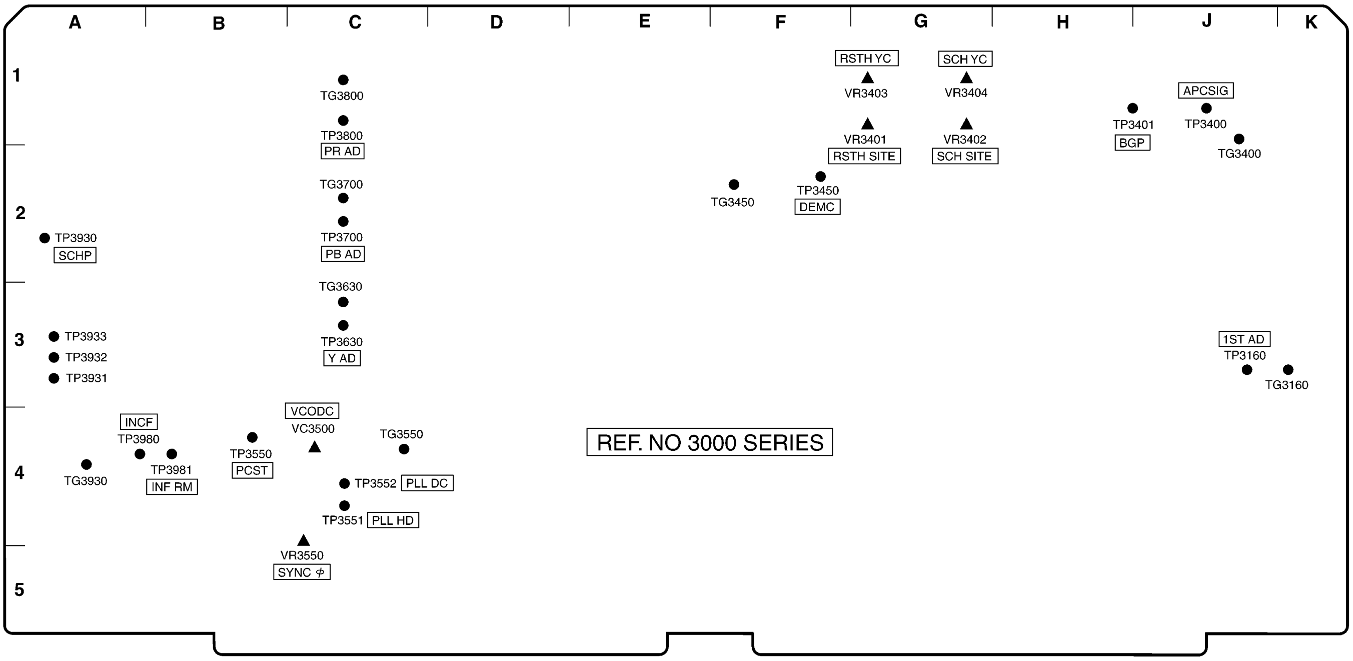
PB EDA SSP
TP3493
TP3504
FRP
TG3076
TP3494
PB TST
TP3491
PB FRP
TP3478
REC TST
TG3074
TG3072
REC EDA SSP
TP3473
TP3471
REC FRP
TP4302
TP4303
TG3073
REF. NO 4000 SERIES
TG3075
REF. NO 3000 SERIES
TG3071

FOIL SIDE

F5 V IN P.C.BOARD (VEP83553A)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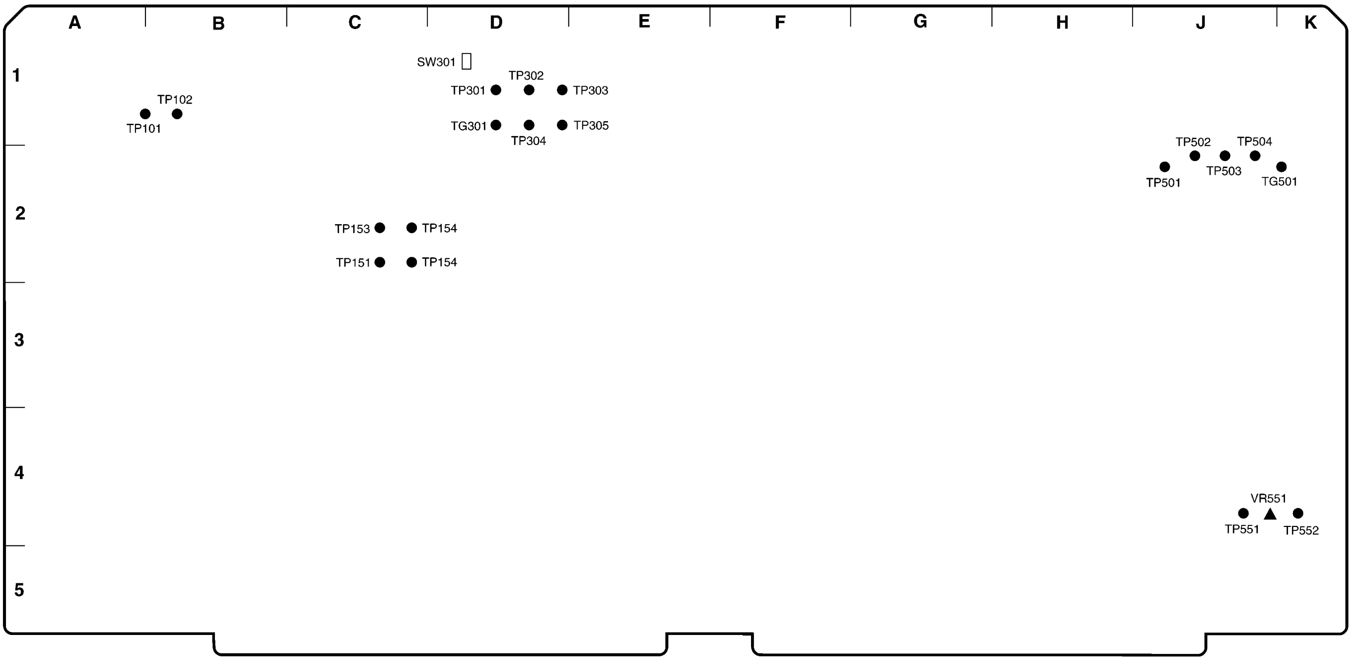
TG3800
TP3800
PR AD
TG3700
TP3700
PB AD
TG3630
TP3630
Y AD
TP3930
SCHP
TP3933
TP3932
TP3931
INCF
TP3980
TP3981
INF RM
TG3930
TP3550
PCST
VCODC
VC3500
TG3550
TP3552
PLL DC
TP3551
PLL HD
VR3550
SYNC ϕ
REF. NO 3000 SERIES
RSTH YC
VR3403
SCH YC
VR3404
VR3401
RSTH SITE
VR3402
SCH SITE
TG3450
TP3450
DEMC
TP3401
BGP
APCSIG
TP3400
TG3400
1ST AD
TP3160
TG3160

COMPONENT SIDE

F6 SYSCON P.C.BOARD (VEP86314A)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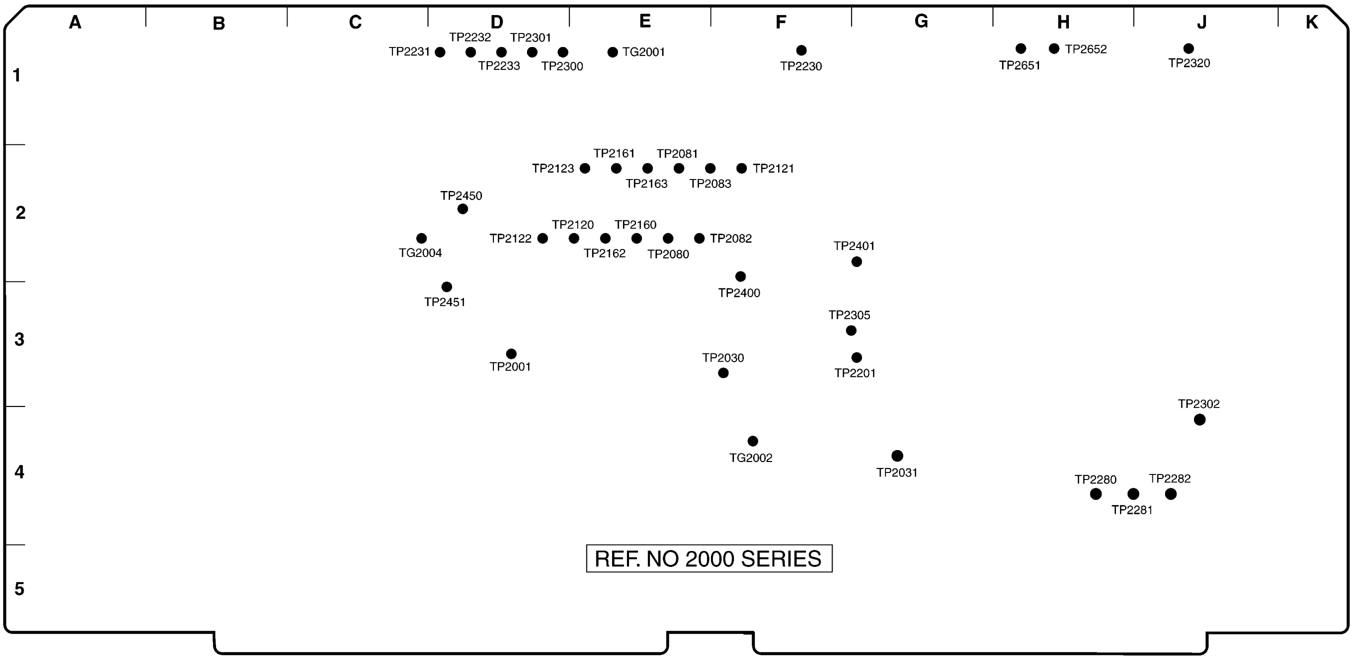
TP102
TP101
SW301
TP302
TP301
TP303
TG301
TP304
TP305
TP153
TP154
TP151
TP154
TP502
TP504
TP503
TP501
TG501
VR551
TP551
TP552

COMPONENT SIDE

F7 SERVO P.C.BOARD (VEP82238A)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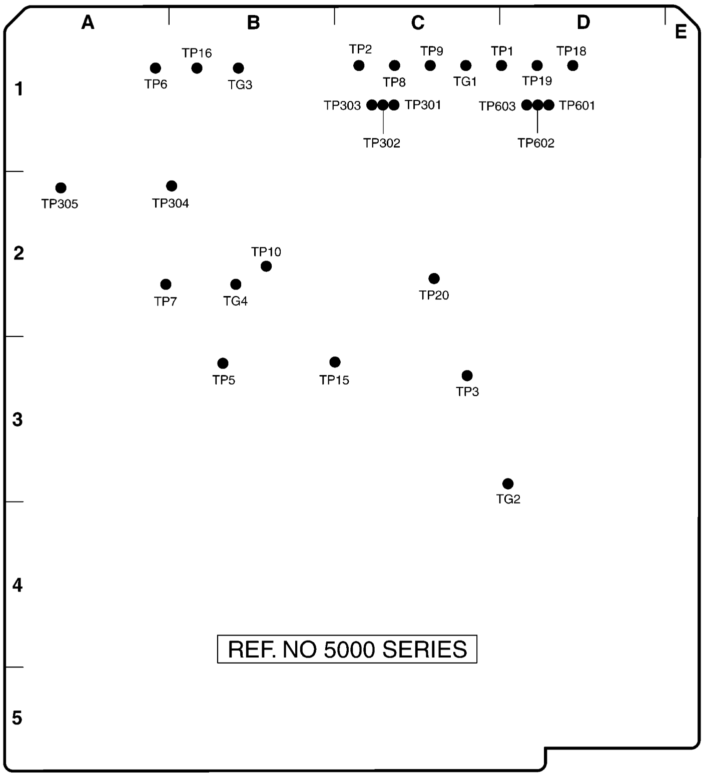
TP2231
TP2232
TP2233
TP2301
TP2300
TG2001
TP2230
TP2651
TP2652
TP2320
TP2161
TP2081
TP2123
TP2163
TP2083
TP2121
TP2450
TP2120
TP2160
TG2004
TP2122
TP2162
TP2080
TP2082
TP2401
TP2400
TP2451
TP2305
TP2001
TP2030
TP2201
TP2302
TG2002
TP2031
TP2280
TP2282
TP2281
REF. NO 2000 SERIES

COMPONENT SIDE

F8 RF EQ P.C.BOARD (VEP85196A)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TP16
TP6
TG3
TP2
TP9
TP1
TP18
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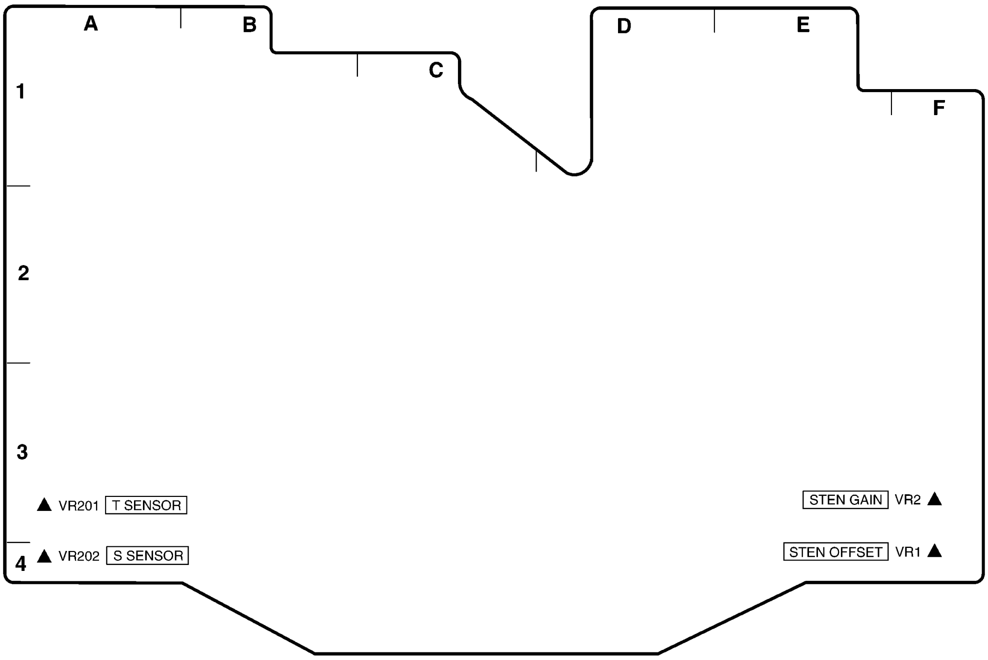
TP19
TP303
TP301
TP603
TP601
TP302
TP602
TP305
TP304
TP10
TP7
TG4
TP20
TP5
TP15
TP3
TG2
REF. NO 5000 SERIES

COMPONENT SIDE

MECHA IF P.C.BOARD (VEP82239A)


A
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C
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E
F
1
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3
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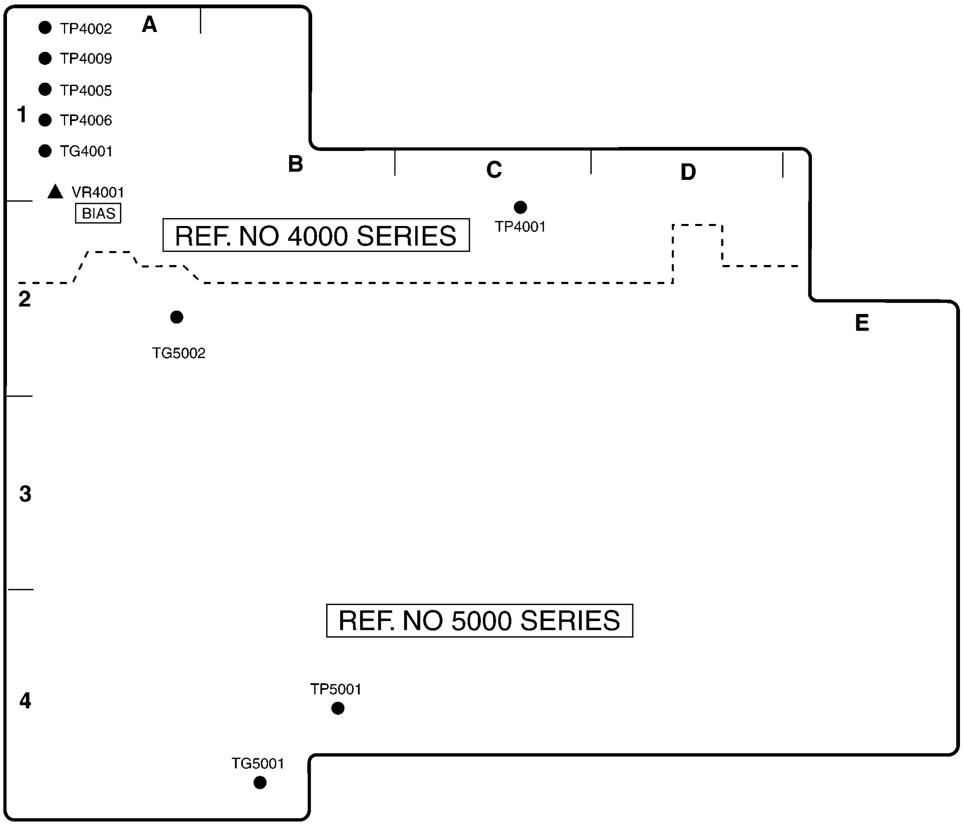
VR201
T SENSOR
VR202
S SENSOR
STEN GAIN
VR2
STEN OFFSET
VR1

COMPONENT SIDE

RF CUE P.C.BOARD (VEP85197A)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TP4009
TP4005
TP4006
TG4001
VR4001
BIAS
A
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C
D
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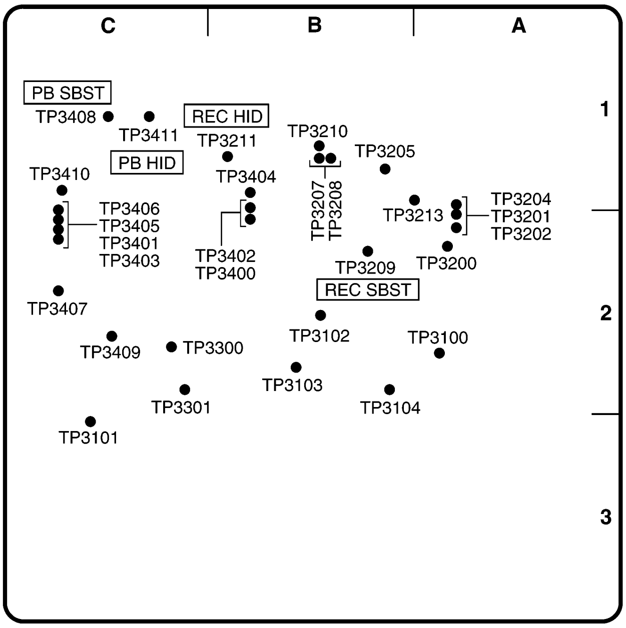
REF. NO 4000 SERIES
TP4001
TG5002
REF. NO 5000 SERIES
TP5001
TG5001

COMPONENT SIDE

CSP SUB P.C.BOARD (VEP83555A)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PB SBST
TP3408
TP3411
REC HID
TP3211
PB HID
TP3410
TP3404
TP3210
TP3205
TP3207
TP3208
TP3406
TP3405
TP3401
TP3403
TP3402
TP3400
TP3213
TP3204
TP3201
TP3202
TP3209
TP3200
REC SBST
TP3407
TP3102
TP3100
TP3409
TP3300
TP3103
TP3301
TP3104
TP3101

FOIL SIDE

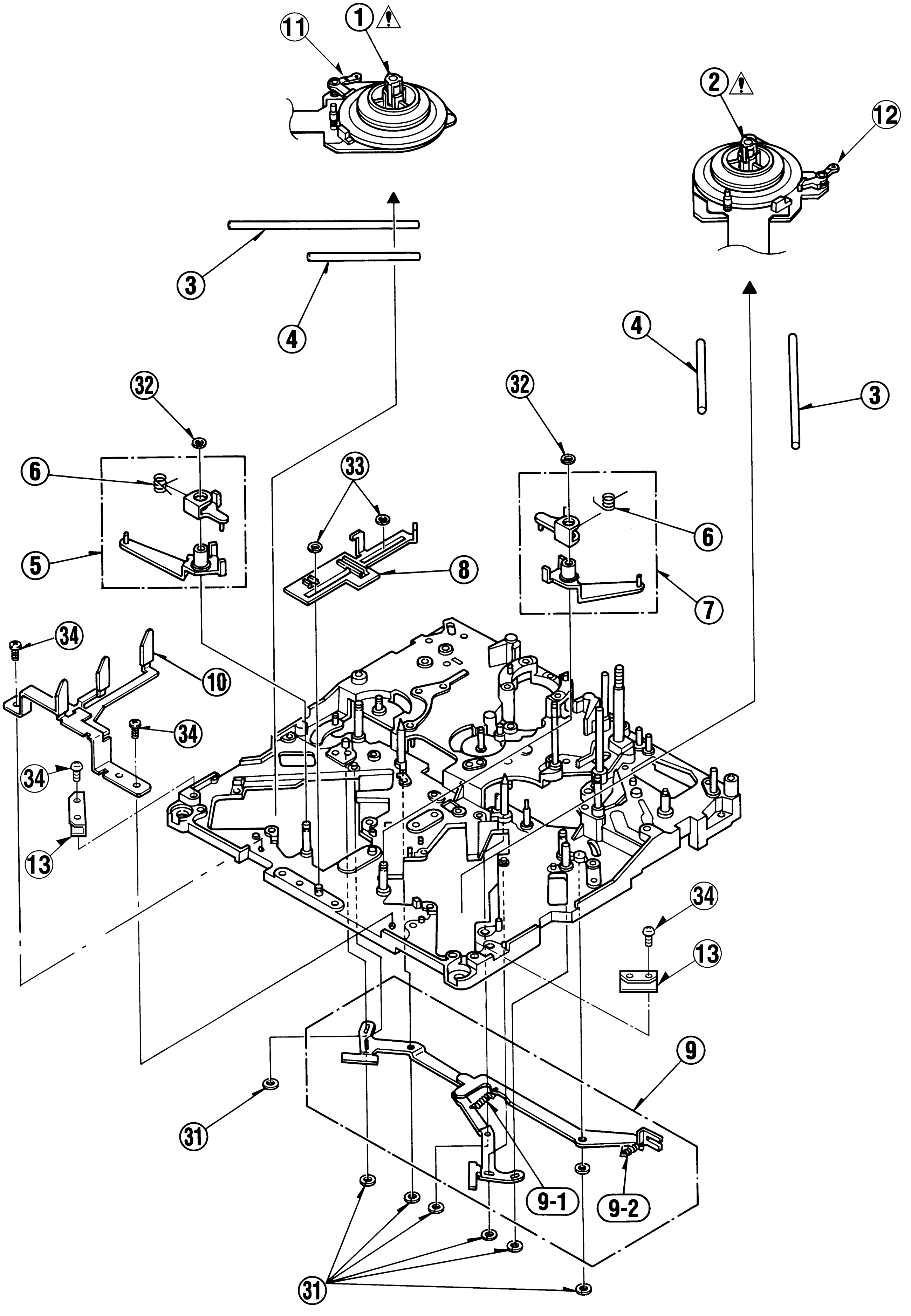
SERVICING FIXTURES & TOOLS

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145A	BACK TENSION METER	1	
2	VFK1149A	POST DRIVER	1	
3	VFK71A	DIAL TORQUE GAUGE (150G)	1	
4	VFK1191A	DIAL TORQUE GAUGE (45G)	1	
5	VFK1152	DIAL TORQUE GAUGE ADAPTER	1	
6	VFK0357	ECCENTRIC SCREW DRIVER	1	(1.5MM)
7	VFK1154	POST HEIGHT FIXTURE	1	
8	VFK1153	MECH. NEUTRAL PLATE	1	
9	VFK1155	REV. POSITION TOOL	1	(SILVER)
10	VFK1156	PLAY POSITION TOOL	1	(BLACK)
11	VFK1208	NEUTRAL POSITION TOOL	1	(BLACK WITH HOLE)
12	VFK1150	NUT DRIVER (5.5MM)	1	
13	VFK1151	NUT DRIVER (2.5MM)	1	
14	VFK1188A	DIAL TENSION GAUGE	1	
15	VFK0948A	CHECK LIGHT	1	
16	VFK0749	FROIRAL GREASE (WHITE)	1	(FOR PLASTIC PART)
17	M0R265	MORLYTONE GREASE (BLACK)	1	(FOR METAL PART)
18	VFK1146	PHILIPS DRIVER (00-75)	1	
19	VFK1147	PHILIPS DRIVER (00-100)	1	
20	VFK1148	HEX DRIVER (1.5MM)	1	
21	VFK1178	HEX DRIVER (0.89MM)	1	
22	VFK1179	HEX DRIVER (0.71MM)	1	
23	VFK1190	HEX. WRENCH	1	
24	VFK1209A	TORQUE DRIVER	1	
25	VFK1375	POST AXIS DRIVER	1	
26	VFK1300	A/D BOARD (DAQ-12)	1	
27	VFM3580KM	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.1)
27	VFM3580KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.1)
28	VFM3581KM	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.2)
28	VFM3581KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.2)
29	VFM3582KM	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.3)
29	VFM3582KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.3)
30	VFM3010EDS	DV ALIGNMENT TAPE	1	FOR NTSC (COLOR BAR)
31	VFM3000EDS	DV ALIGNMENT TAPE	1	(LISTA)
32	AJ-CL12MP	CLEANING TAPE	1	
33	VFK1423	TAPE BEG/END DET CASSETTE	1	(M)
34	VFK1192	F EXTENSION BOARD	1	
35	VFK1496	EXTENDER BOARD	1	
36	VFK1481B	LISTA SOFTWARE	1	
37	VFK1186	LISTA CABLE	1	
38	VFK1503	SERVO VERSION UP SOFTWARE	1	
39	VFK1590	C PLD WRITER	1	
40	VFK1304A	FLASH MEMORY VER. UP TOOL	1	
41	VFK0906	LUBRCATION OIL	1	
42	VZZ0095	CLEANING CLOTH	1	
43	-----	EE CLEANER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

MECHANICAL CHASSIS ASSEMBLY (1)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



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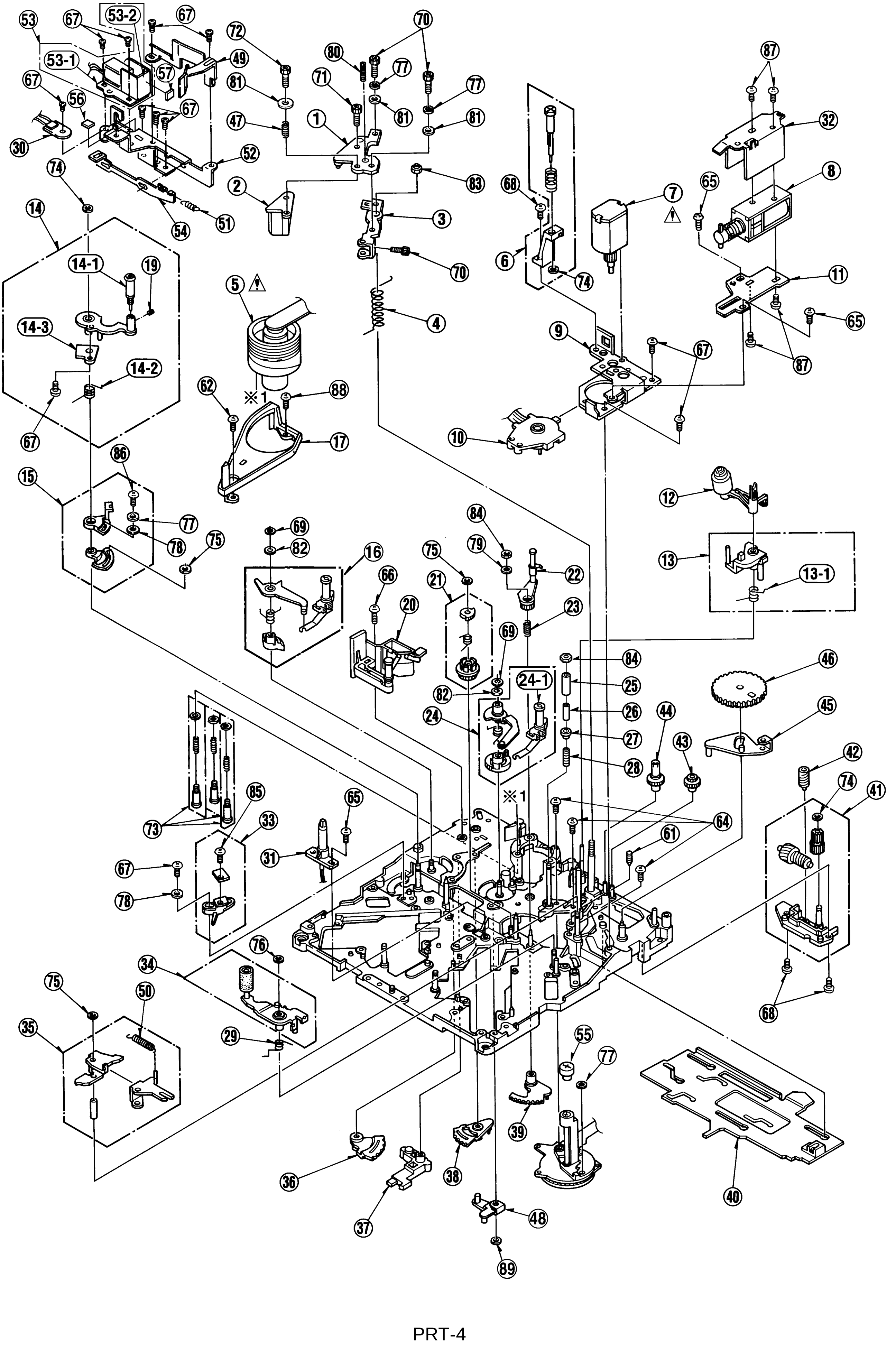
MECHANICAL CHASSIS ASSEMBLY (1)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use only the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VEM0686	S REEL MOTOR A ASS'Y	1	(M)
⚠ 2	VEM0687	T REEL MOTOR A ASS'Y	1	(M)
3	VMS5923	REEL OUTER RAIL	2	
4	VMS5924	REEL INNER RAIL	2	
5	VXL2589	S BASE DRIVE ARM ASS'Y	1	
6	VMB2944	CHARGE SPRING	2	
7	VXL2590	T BASE DRIVE ARM ASS'Y	1	
8	VXA5625	SLIDE ROD ASS'Y	1	
9	VXL2597	M STOPPER DRIVE ARM ASS'Y	1	
9-1	VMB2955	M STOPPER SPRING (1)	1	
9-2	VMB3017	M STOPPER SPRING (2)	1	
10	VXA6174	L-M BRAKE RELEASE ASS'Y	1	
11	VXZ0439	S BRAKE ARM ASS'Y	1	
12	VXZ0440	T BRAKE ARM ASS'Y	1	
13	VMZ2603	REEL FLEX COVER	2	
31	VMX1061	WASHER	7	
32	VMX1079	CUT WASHER	2	
33	VMX0967	CUT WASHER	2	
34	XQN2+CF3	SCREW	4	

MECHANICAL CHASSIS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.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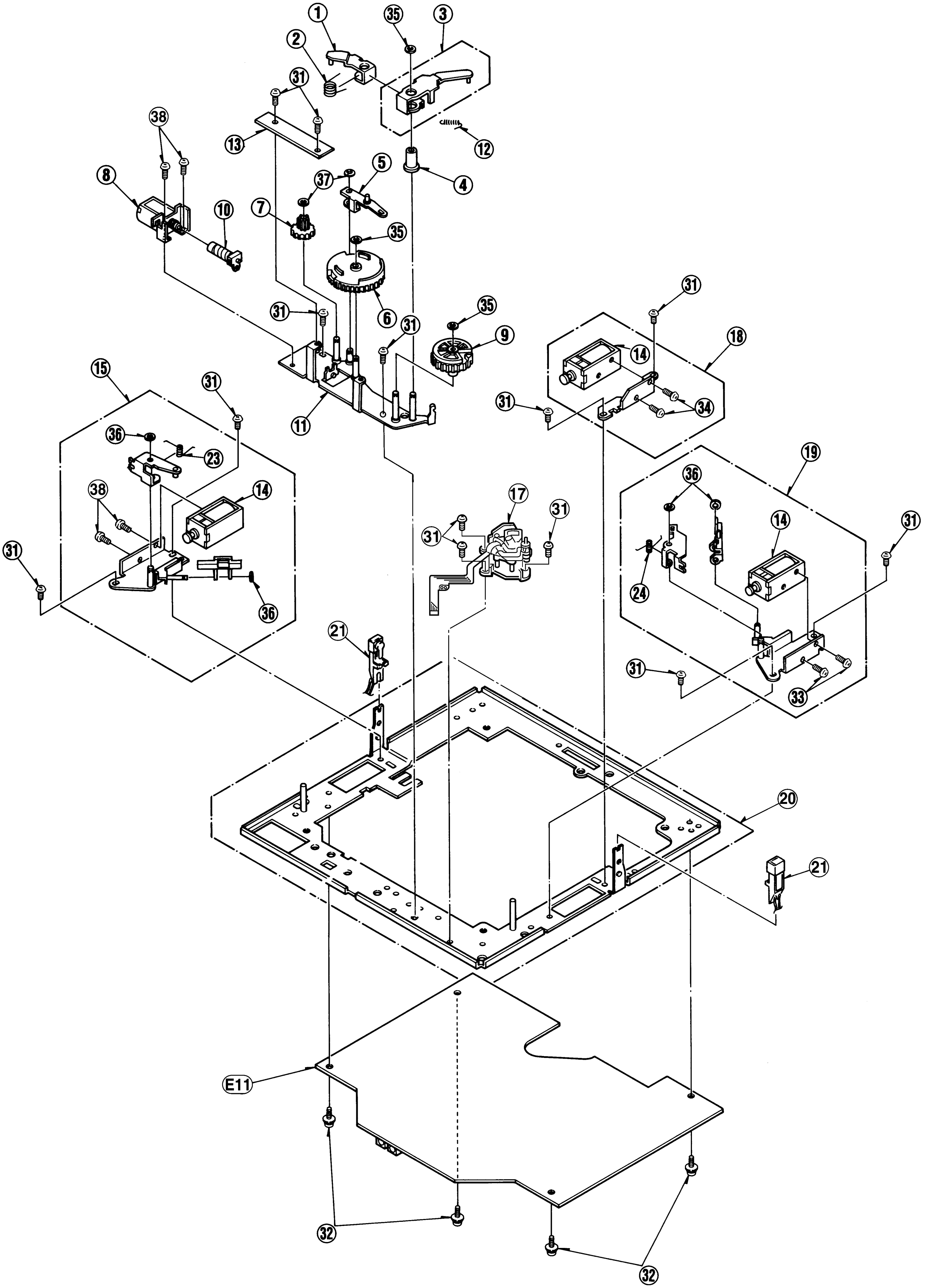
MECHANICAL CHASSIS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5554	A/C HEAD BASE (1) ASS'Y	1	
2	VED0419	A/C HEAD	1	(M)
3	VXA6067	A/C HEAD BASE (2) ASS'Y	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
⚠ 5	VEG1498	CYLINDER UNIT	1	
6	VXA5715	EMERGENCY SHIFT HOLDER ASS'	1	
⚠ 7	VEM0645	LOADING MOTOR (1)A ASS'Y	1	(M)
8	VSJ0227	PINCH SOLENOID	1	(M)
9	VXA5584	MOTOR ANGLE ASS'Y	1	
10	VES0930	MODE SW ASS'Y	1	
11	VMA0A35	PINCH SOLENOID BASE	1	
12	VXL3027	CLEANING ARM ASS'Y	1	
13	VXL2870	T2 ARM ASS'Y	1	
13-1	VMB3304	T2 ARM SPRING	1	
14	VXL2831	TENSION ARM A ASS'Y	1	(M)
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB3220	TENSION LEG SPRING	1	
14-3	VXA6173	MAGNET HOLDER ASS'Y	1	
15	VXA5791	TENSION LEG SPRING HOOK ASS'	1	
16	VXL2709	S1 LOADING ARM ASS'Y	1	(M)
17	VMD3731	LOADING RAIL	1	
19	VHD0561	HEX SCREW	1	
20	VXA6052	S POST BASE A ASS'Y	1	(M)
21	VXP1683	T4 CONNECTION GEAR ASS'Y	1	
22	VXL2772	T4 ARM ASS'Y	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2952	T LOADING ARM ASS'Y	1	
24-1	VXA6378	T1 BOART ASS'Y	1	
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULLATION SENSOR	1	
31	VEK7691	LED HOLDER P.C.BOARD	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820	TENSION SENSOR ASS'Y	1	
34	VXL2835	PINCH ARM ASS'Y	1	(M)
35	VXL2588	PINCH GUIDE ARM ASS'Y	1	
36	VXA5570	T SECTOR GEAR ASS'Y	1	
37	VXL2838	TENSION LEG. GUIDE ARM	1	
38	VXA5567	S SECTOR GEAR ASS'Y	1	
39	VXA5564	T4 SECTOR GEAR ASS'Y	1	
40	VXA6348	MAIN ROD ASS'Y	1	
41	VXA5627	THRUST SHAFT HOLDER ASS'Y	1	
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1268	MOTOR EMARGENCY GEAR A(A)	1	
44	VDG1267	MOTOR EMARGENCY GEAR B(A)	1	
45	VXL2889	MAIN CAM ARM ASS'Y	1	
46	VDG1168	MAIN CAM GEAR	1	(M)
47	VMB2937	A/C HEAD ADJUST SPRING	1	
48	VXL2600	EJECT ARM ASS'Y	1	
49	VMD3475	T1 GUIDE ASS'Y	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA6077	CLEANER BASE 1 ASS'Y	1	
53	VXA6078	CLEANER SOLENOID ASS'Y	1	
53-1	VSJ0226	CLEANER SOLENOID	1	(M)
53-2	VMA9877	CLEANER SOLENOID BASE	1	
54	VMM0429	CLEANER INTERLOCK	1	
55	VXQ0556	THRUST SCREW ASS'Y	1	(M)
56	VMT0871	SILENCER A	1	
57	VMT0872	SILENCER B	1	
61	VHD0356	SCREW	1	
62	XQN2+A3	SCREW	1	
64	XQN2+A35FZ	SCREW	3	
65	XQN2+AM2	SCREW	3	
66	XQN2+AM4	SCREW	1	
67	XQN2+CF3	SCREW	12	
68	XQN2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	
70	XVE2B4FZ	HEX SCREW	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
71	XVE2B6FP	HEX SCREW	1	
72	XVE2B12FP	HEX SCREW	1	
73	VXQ0439	SCREW	3	
74	VMX0967	CUT WASHER	3	
75	VMX1061	WASHER	3	
76	VMX1079	CUT WASHER	1	
77	XWA2B	WASHER	4	
78	XWE2	WASHER	2	
79	XWE16VW	WASHER	1	
80	XXE2A6FP	HEX SCREW	1	
81	XWG2	WASHER	3	
82	XWGV15Z32G	WASHER	2	
83	VHD0045	NYLON NUT	1	
84	VHN0312	NUT	2	
85	XQN2+AQ3.5FZ	SCREW	1	
86	XQN2+AJ5	SCREW	1	
87	XQN2+A1.5	SCREW	4	
88	XQN2+A4	SCREW	1	
89	VMX0967	CUT WASHER	1	
*	VXY1631Z1	MECHA CHASSIS ASS'Y	1	

SUB CHASSIS ASSEMBLY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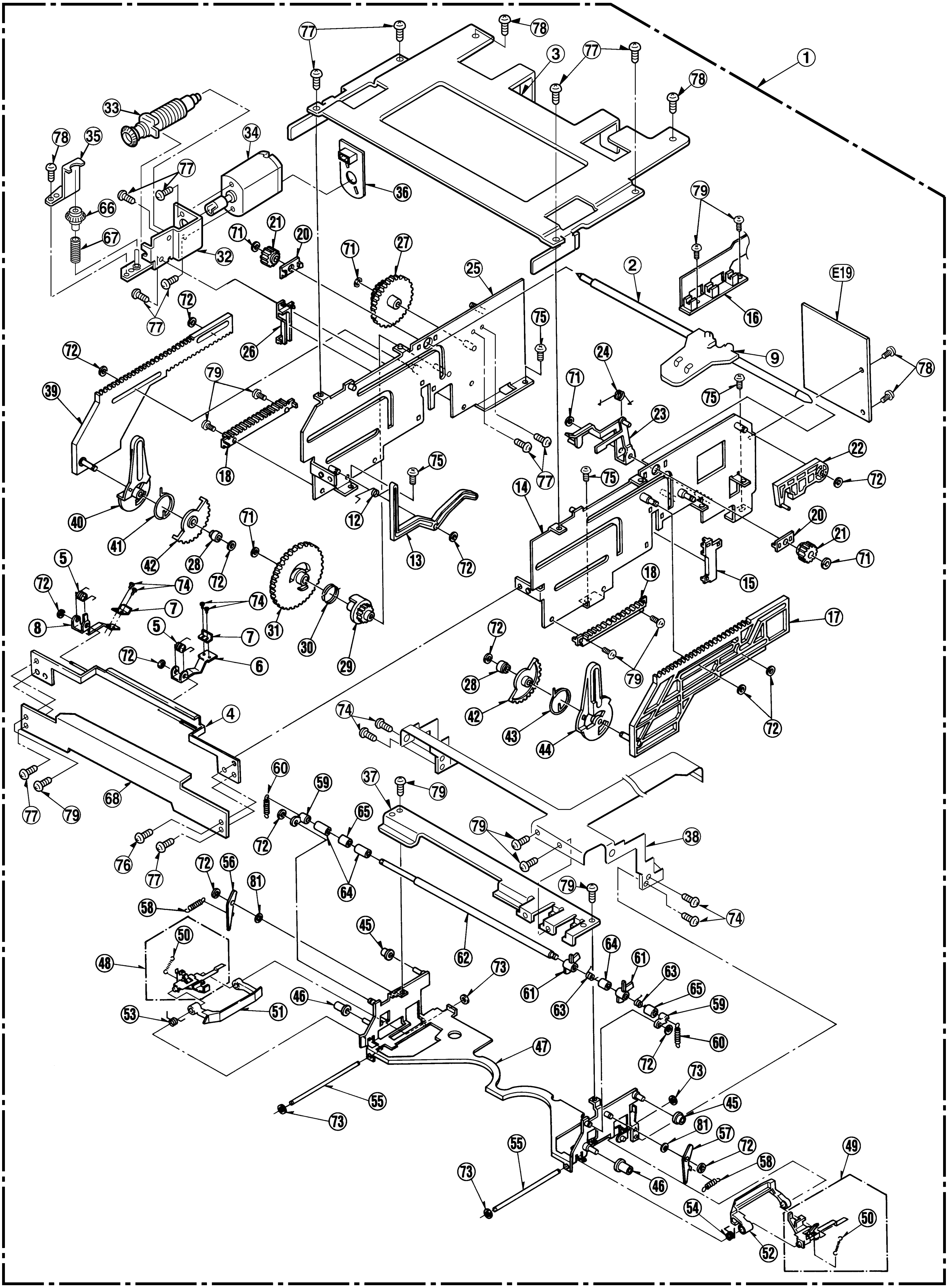
SUB CHASSIS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL2656	MIC DRIVE ARM (A) ASS'Y	1	
2	VMB3018	MIC DRIVE SPRING	1	
3	VXL2657	MIC DRIVE ARM (B) ASS'Y	1	
4	VDB1429	MIC DRIVE ARM BOSS	1	
5	VXL2613	REEL DRIVE ARM ASS'Y	1	
6	VDG1192	REEL DRIVE CAM GEAR	1	
7	VDG1193	REEL DRIVE WORM WHEEL	1	
8	VEM0585	REEL DRIVE MOTOR ASS'Y	1	(M)
9	VDG1211	MIC GENEVA GEAR	1	
10	VXP1698	REEL DRIVE WORM ASS'Y	1	
11	VXA5628	MOTOR BASE ASS'Y	1	
12	VMB3019	MIC DRIVE RETURN SPRING	1	
13	VEK7726	REEL SENSOR P.C.BOARD	1	
14	VSJ0216	SOLENOID	3	(M)
15	VXA5575	S-BRAKE SOLENOID BASE ASS'Y	1	
17	VXA6199	DISTINCTION SW ASS'Y	1	(M)
18	VXA5579	M STOPPER SOLENOID ASS'Y	1	
19	VXA5887	T-BRAKE SOLENOID BASE ASS'Y	1	
20	VXK1336	SUB CHASSIS	1	
21	VEK7692	SENSOR HOLDER ASS'Y	2	
22	VMS6193	T BRAKE RELEASE ARM SHAFT	1	
23	VMB2957	S BRAKE SPRING	1	
24	VMB2987	T BRAKE SPRING	1	
31	XQN2+CF3	SCREW	13	
32	XYN26+K6	SCREW	4	
33	XQN2+A1.5	SCREW	2	
34	XQN2+A2	SCREW	2	
35	VMX1079	CUT WASHER	3	
36	VMX0967	CUT WASHER	4	
37	VMX1548	CUT WASHER	2	
38	XQN2+A1.5	SCREW	4	
E11	VEP82239A	MECHA I/F P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

CASSETTE COMPARTMENT ASSEMBLY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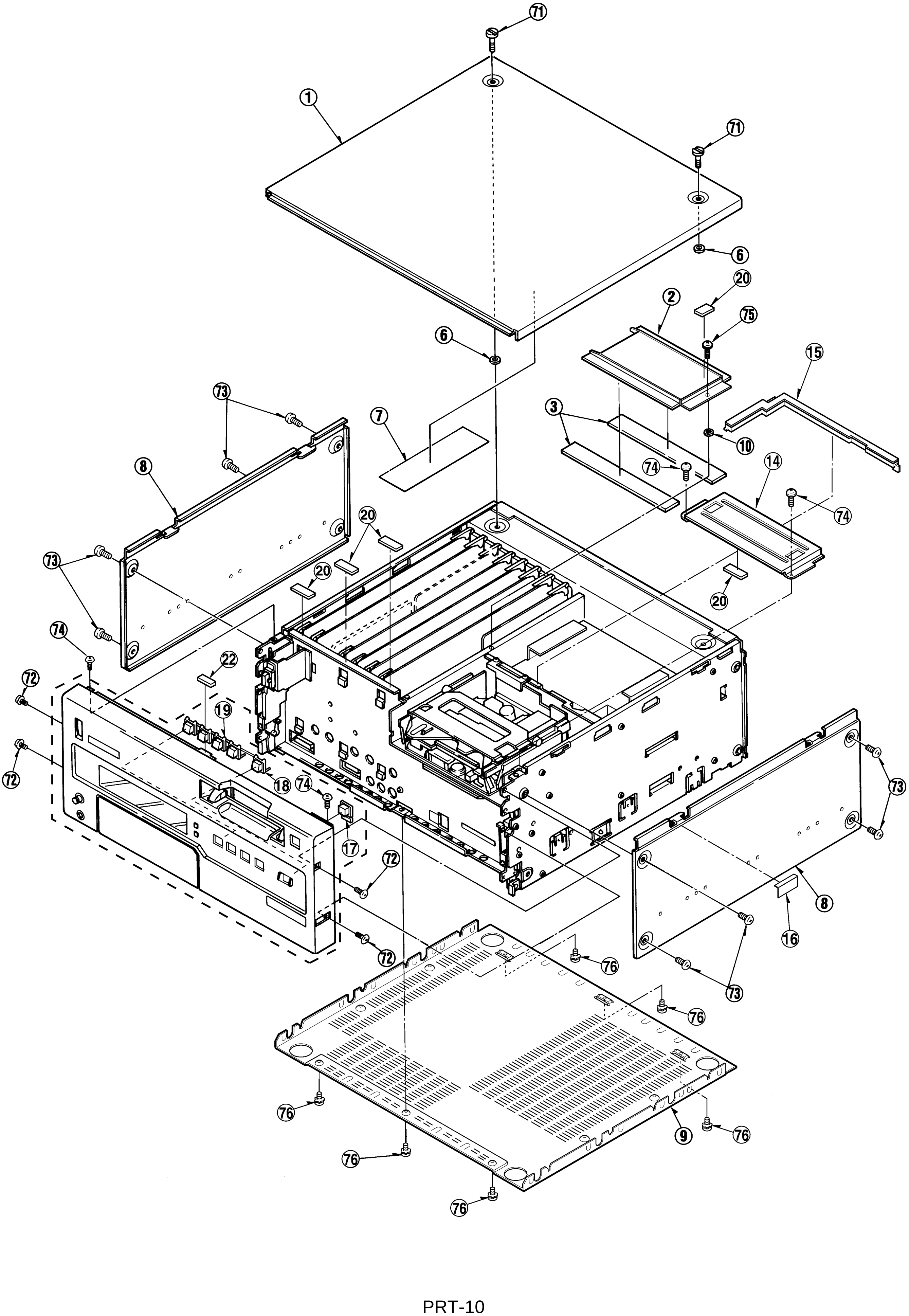
CASSETTE CONPARTMENT ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6593	CASSETTE COMPARTMENT	1	(M)
2	VMS5865	MAIN SHAFT	1	
3	VMA9849	TOP PLATE	1	
4	VXA6572	FRONT GUIDE 1 ASS'Y	1	
5	VMB3075	M GUIDE SPRING	2	
6	VML3191	M GUIDE RIGHT LEVER	1	
7	VML3192	M FRONT GUIDE	2	
8	VML3190	M GUIDE LEFT LEVER	1	
9	VML3397	CASSETTE PROTECT PLATE	1	
12	VMB2926	SPRING	1	
13	VML2A50	BLINDER PANEL OPENER	1	
14	VXA6074	R SIDE PLATE 1 ASS'Y	1	
15	VML3282	SUB RAIL (R)	1	
16	VEK7695	SIDE FLEXIBLE	1	
17	VXA5766	MAIN RACK R ASS'Y	1	
18	VDG1156	WIPER RACK	2	
20	VDB1395	MAIN SHAFT ANGLE	2	
21	VDG1412	INTERLOCK GEAR	2	
22	VML3193	OPENER DRIVE ARM	1	
23	VXL2692	OPENER ANGLE ASS'Y	1	
24	VMB2979	SPRING	1	
25	VXA6072	SIDE PLATE L 1 ASS'Y	1	
26	VML3281	SUB RAIL (L)	1	
27	VDG1413	INTERAMEDIATE GEAR	1	
28	VDP1643	WIPER ROLLER	2	
29	VDG1414	CLUTCH GEAR	1	
30	VMB2980	CLUTCH SPRING	1	
31	VDG1236	WORM WHEEL	1	
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1	
33	VXP1797	E.E SLOT IN WORM ASS'Y	1	
34	VXA5597	MOTOR ASS'Y	1	(M)
35	VMA9673	EMARGENCY ANGLE	1	
36	VEK7793	MOTOR P.C.BOARD	1	
37	VMA9668	HOLDER PLATE	1	
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1	
39	VXA6075	MAIN RACK (L) ASS'Y	1	
40	VML3485	WIPER ARM (R)	1	
41	VMB3391	WIPER ARM (L)	1	
42	VDG1163	WIPER GEAR	2	
43	VMB3390	WIPER SPRING (L)	1	
44	VML3484	WIPER SPRING (R)	1	
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2	
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1	
48	VXA5758	ROD L	1	
49	VXA5759	ROD R	1	
50	VMB3064	SLIDE SPRING	2	
51	VML3249	SIDE GUIDE L	1	
52	VML3250	SIDE GUIDE R	1	
53	VMB3061	SLIDE GUIDE SPRING L	1	
54	VMB3062	SLIDE GUIDE SPRING R	1	
55	VMS6108	KICK OFF ROD SHAFT	2	
56	VML2A54	KICK OFF ARM L	1	
57	VML2A55	KICK OFF ARM R	1	
58	VMB2928	KICK OFF SPRING	2	
59	VML2A53	CASSETTE HOLDER ARM	2	
60	VMB2927	CASSETTE HOLDER SPRING	2	
61	VMX2833	M-L DETECT ROLLER	2	
62	VMS5882	CASSETTE HOLDER SHAFT	1	
63	VMB3253	M-L DETECT SPRING	2	
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3	
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	2	
66	VDG1246	EMARGENCY GEAR	1	
67	VMB3109	EMARGENCY SPRING	1	
68	VMZ2661	FRONT GUIDE COVER	1	
71	VMX0653	CUT WASHER	5	
72	VMX0967	CUT WASHER	14	
73	VMX1061	WASHER	4	
74	XQN16+A2	SCREW	8	
75	XQN2+CF3	SCREW	4	
76	XQN2+A2	SCREW	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
77	XYN2+C4	SCREW	12	
78	XQN2+A3	SCREW	5	
79	LMHD16064	SCREW	11	
81	XWGV2Z5G	WASHER	2	
E19	VEP80856A	CARRIGE P.C.BOARD	1	

CASING PARTS ASSEMBLY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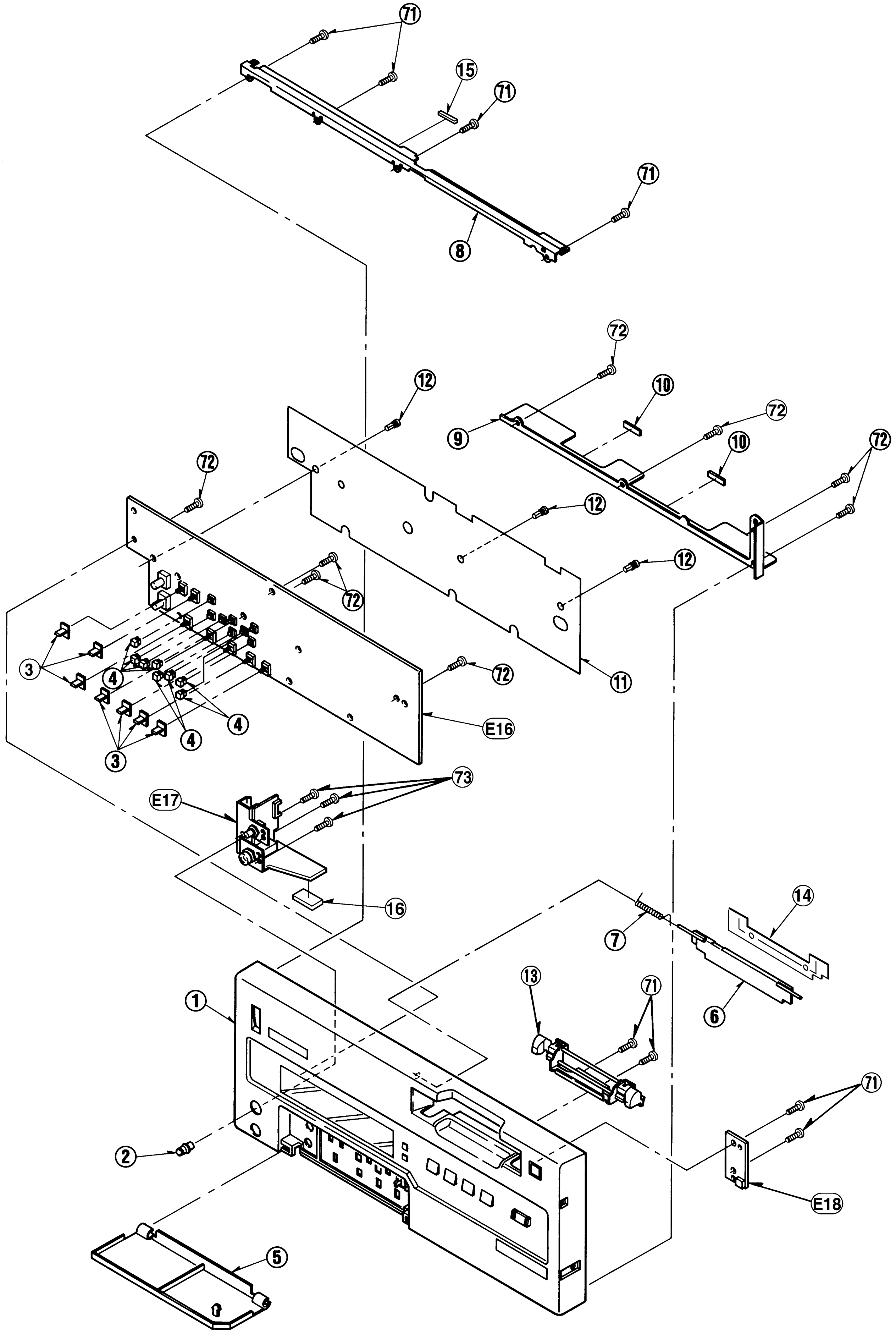
CASING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP7585	TOP PANEL	1	
2	VMP6805	P.C.B. PLATE L	1	
3	VMT1222	P.C.B. RUBBER CUSHION L	2	
6	VMX2510	SPACER	2	
7	VMZ2325	TOP PANEL BARRIER	1	
8	VGM1699	SIDE PANEL	2	
9	VKU0546	BOTTOM PLATE	1	
10	VMX1558	NYLON WASHER	1	
14	VMP5265	CARRIAGE SUPPORT METAL	1	
15	VXA6591	MECHA DUST PROOF (U)ASS'Y	1	
16	VGF0816	INSULATION SHEET	1	
17	VGU8108	EJECT BUTTON	1	
18	VGU7423	OPERATION BUTTON B	1	
19	VGU7422	OPERATION BUTTON A	1	
20	VMT0797	GASKET C	5	
22	VMT0847	GASKET	1	
71	VHD0775	SCREW	2	
72	XSB3+8FZ	SCREW	4	
73	XSB4+8FC	SCREW	8	
74	XTV3+6F	SCREW	4	
75	XYN3+K8	SCREW	1	
76	XYE3+EF6	SCREW	6	

FRONT PANEL ASSEMBLY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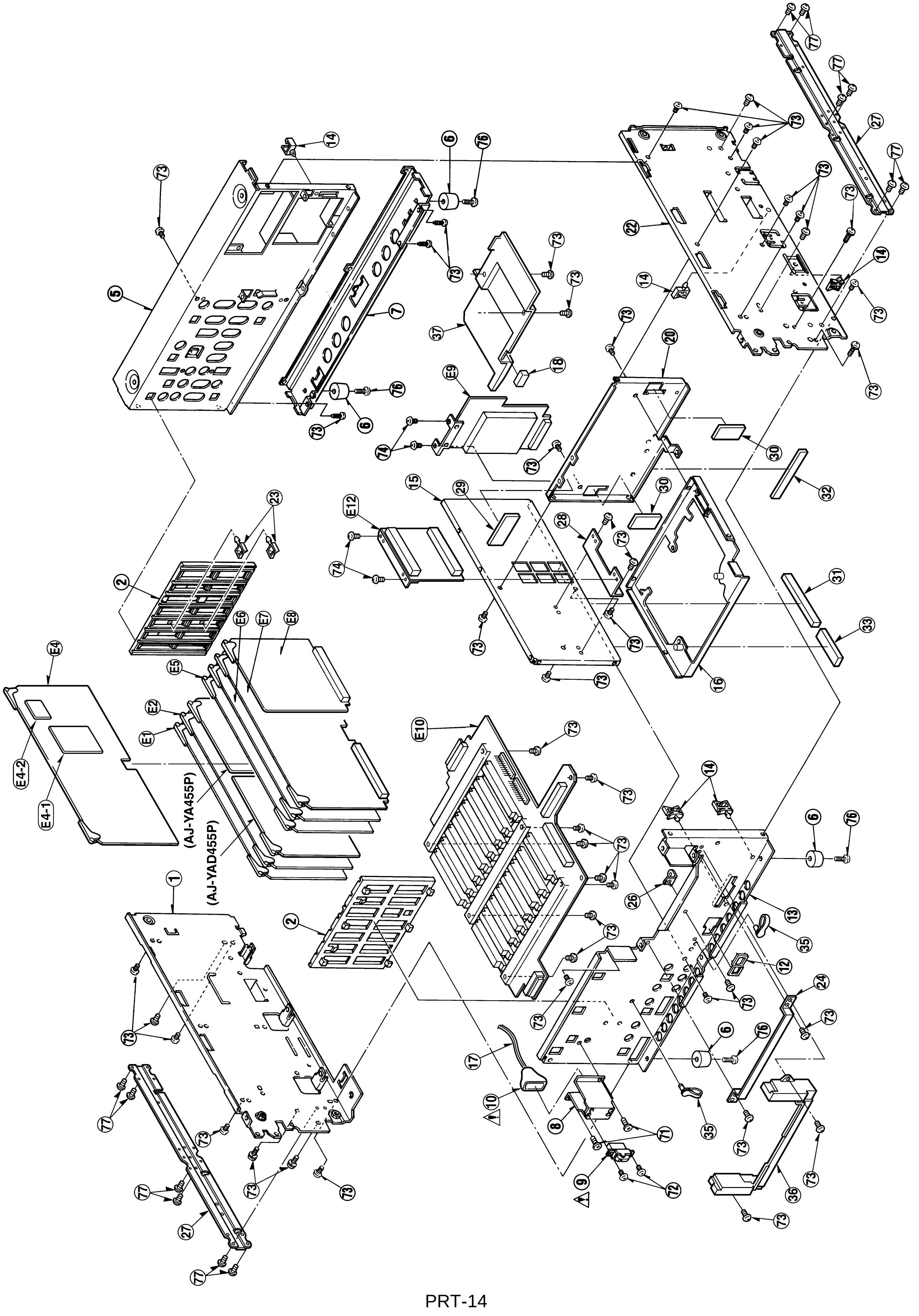
FRONT PANEL ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP8126	FRONT PANEL (1) ASS'Y	1	
2	VGU5334	LEVER VR KNOB	1	
3	VGU6516	SLIDE SW KNOB (L)	7	
4	VGU7459	TACT SW KNOB	8	
5	VKF3100	FRONT DOOR	1	
6	VKF2785	BLINDER PANEL	1	
7	VMB2923	BLINDER SPRING	1	
8	VMP4864	UPPER FRONT PANEL ANGLE	1	
9	VMP6810	PANEL SUPPORT ANGLE	1	
10	VMT0800	GASKET	2	
11	VMZ3143	INSULATION SHEET	1	
12	VJF0108	SPACER	3	
13	VYQ2244	CASSETTE GUIDE ASS'Y	1	
14	VGF0836	PANEL SHEET	1	
15	VMT0847	GASKET	1	
16	VMT0493	CUSHION	1	
71	XTV3+8G	SCREW	8	
72	XTN4+10G	SCREW	8	
73	XTV3+6GFZ	SCREW	3	
E16	VEP86315A	FRONT P.C.BOARD	1	
E17	VEP80C15A	HEAD PHONE P.C.BOARD	1	
E18	VEP80C16A	EJECT P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

CHASSIS FRAME ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



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CHASSIS FRAME ASSEMBLY

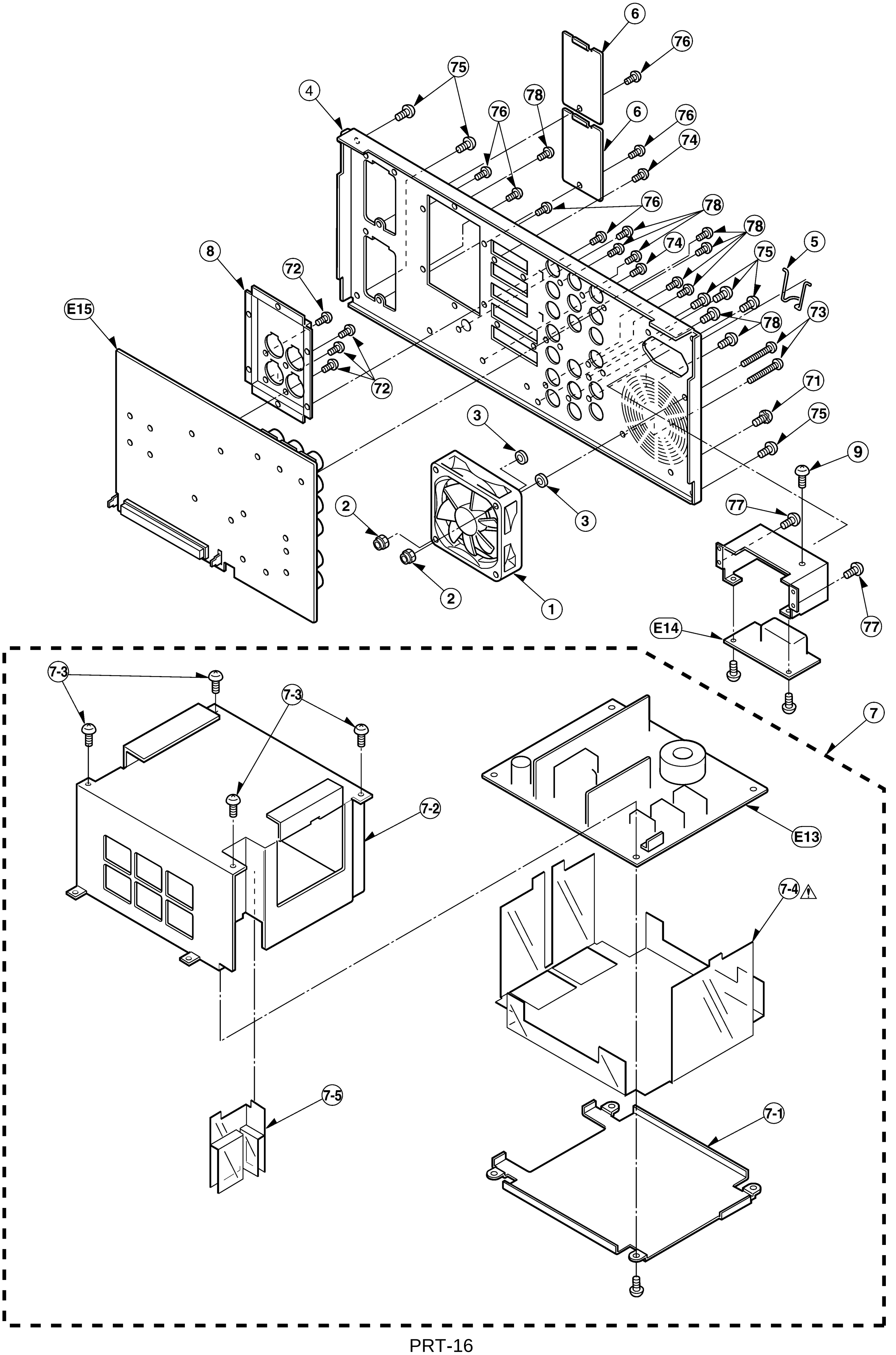
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP6832	SIDE FRAME (L)	1	
2	VGQ4011	P.C.BOARD GUIDE RAIL A	2	
5	VMP6802	REAR FRAME	1	
6	VKA0117	PLASTIC FOOT	4	
7	VMP6020	BOTTOM FRAME	1	
8	VMP4881	SW BRACKET	1	
⚠ 9	EST15372T	POWER SWITCH	1	
⚠ 10	VMZ0580	SW COVER	1	
12	VJF1259	EDGE HOLDER	1	
13	VMP6803	FRONT FRAME	1	
14	VJF0384	CLAMPER	5	
15	VMP6800	CENTER FRAME	1	
16	VXA7029	MECHA FRAME ASS'Y	1	
⚠ 17	VEE0N56	AC CABLE	1	
18	VMT0968	DUST PROOF CUHION (D)	1	
20	VMP6801	MIDDLE FRAME	1	
22	VMP6833	SIDE FRAME (R)	1	
23	VJF0384	CLAMPER	2	
24	VMP6126	MECHA DUST PROOF (F)ASS'Y	1	
26	VMP5298	SUB P.C.B. HOLDER ANGLE	1	
27	VMP6248	RACK MOUNT	2	
28	VMP6807	MECHA EXT FIX ANGLE	1	
29	VMT1014	DUST PROOF CUSHION (A)	1	
30	VMT1219	DUST PROOF CUSHION (A)	2	
31	VMT1044	DUST PROOF CUSHION (L)	1	
32	VMT0965	DUST PROOF CUSHION (A)	1	
33	VMT1043	DUST PROOF CUSHION (K)	1	
35	VJF0469	CLAMPER	2	
36	VXA6625	MECHA DUST PROOF (F)ASS'Y	1	
37	VXA7032	MECHA SHIELD (L) ASS'Y	1	
71	VHD5013	SCREW	2	
72	XTN3+6F	SCREW	2	
73	XTV3+6F	SCREW	44	
74	XTV3+6FFR	SCREW	4	
76	XYNV3+K12S	SCREW	4	
77	XTV4+6F	SCREW	12	
E1	VEP84374A	F1 AUDIO P.C.BOARD	1	
E2	VEP83557A	F2 V OUT P.C.BOARD	1	
E4	VEP83554A	F4 D PROC P.C.BOARD	1	
E4-1	VEP83555A	CSP SUB P.C.BOARD	1	FOR VEP83554A
E4-2	VSI3554A	DV UCOM P.C.BOARD	1	FOR VEP83554A
E5	VEP83553A	F5 V IN P.C.BOARD	1	
E6	VEP86314A	F6 SYSCON P.C.BOARD	1	
E7	VEP82238A	F7 SERVO P.C.BOARD	1	
E8	VEP85196A	F8 RF EQ P.C.BOARD	1	
E9	VEP85197A	RF CUE P.C.BOARD	1	
E10	VEP80C14A	MOTHER P.C.BOARD	1	
E12	VEP82240A	MECHA I/F 2 P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

REAR PANEL ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.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REAR PANEL ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

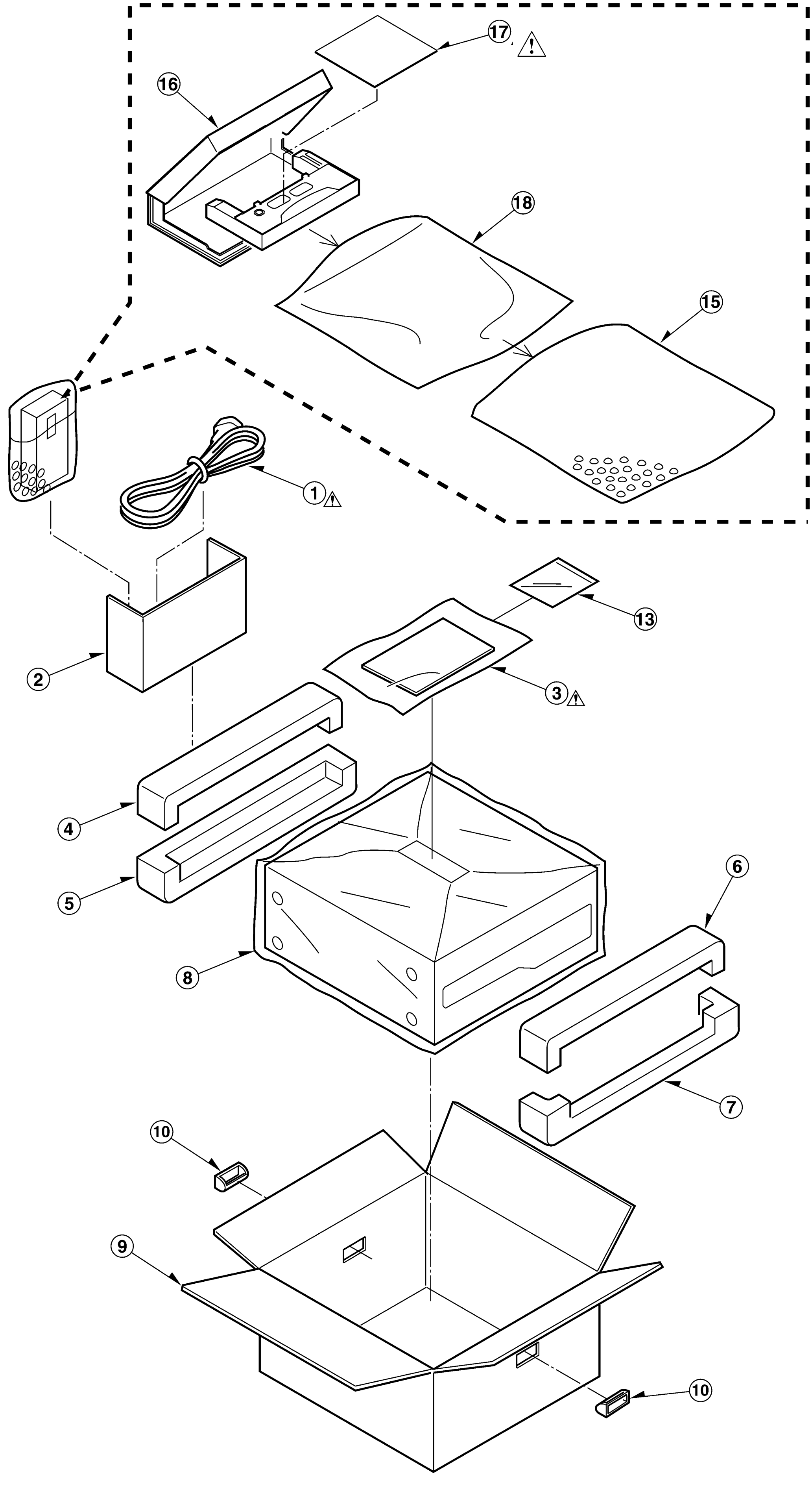
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VRF0190	FAN MOTOR	1	L6FALEFH0007
2	VHN0063	NYLON NUT	2	
3	VMX0835	SPACER	2	
4	VJH1193	JACK PANEL	1	
5	VML2903	AC CORD HOOK	1	
6	VMP5032	OPTION PANEL	2	
7	VEK9276	POWER ASS'Y	1	
7-1	VSC5223	POWER CASE (LOWER)	1	
7-2	VSC5224	POWER CASE (UPPER)	1	
7-3	XYN3+F8	SCREW	4	
⚠ 7-4	VMZ3147	POWER BARRIER	1	
7-5	VMZ3148	POWER BARRIER B	1	
8	VMP6811	XLR HOLDER ANGLE	1	
9	XYN4+E6VW	SCREW	1	
71	XYE4+EF8	SCREW	1	
72	XSN26+6FZ	SCREW	4	
73	XSN4+35FC	SCREW	2	
74	XTN26+6FFZ	SCREW	5	
75	XTV3+6F	SCREW	6	
76	XTV3+6FFZ	SCREW	6	
77	XTV3+6FFR	SCREW	6	
78	XTV3+10GFZ	SCREW	10	
E13	VEP81221A	POWER 1 P.C.BOARD	1	
E14	VEP81222A	POWER 2 P.C.BOARD	1	
E15	VEP80C13A	AV JACK P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

AJ-CS455P



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PACKING PARTS ASSEMBLY

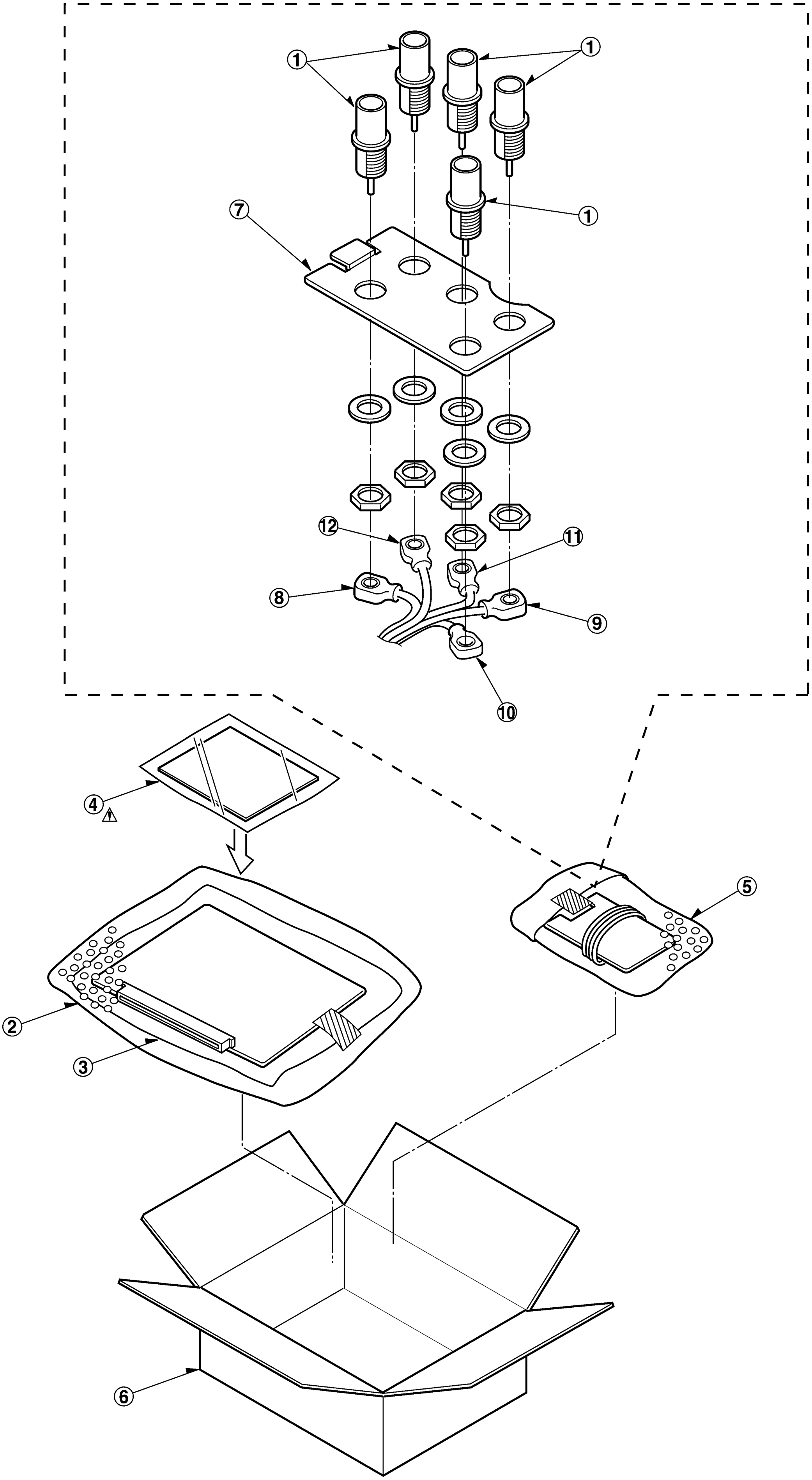
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VJA0488	POWER CODE	1	K2CG3CH00001
2	VPN4305	ACCESSORY PAD	1	
⚠ 3	VQT9172	OPERATING INSTRUCTIONS	1	
4	VPN4302	CUSHION UL	1	
5	VPN4304	CUSHION LL	1	
6	VPN4606	CUSHION	1	
7	VPN4607	CUSHION LR	1	
8	VPF0277	POLYETHYLENE BAG	1	
9	VPG0J45	PACKING CASE	1	
10	VPF0149	CASE HANDLE HOLE COVER	2	
13	VXF0173	EMARGENCY EJECT ASS'Y	1	
15	VPF0679	AIR BAG	1	
16	VPK1856	M CASSETTE SOFT CASE	1	
⚠ 17	VQT9175	OPERATING INSTRUCTIONS	1	
18	VPF0887	POLYETHYLENE BAG	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-YA455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-YA455P)

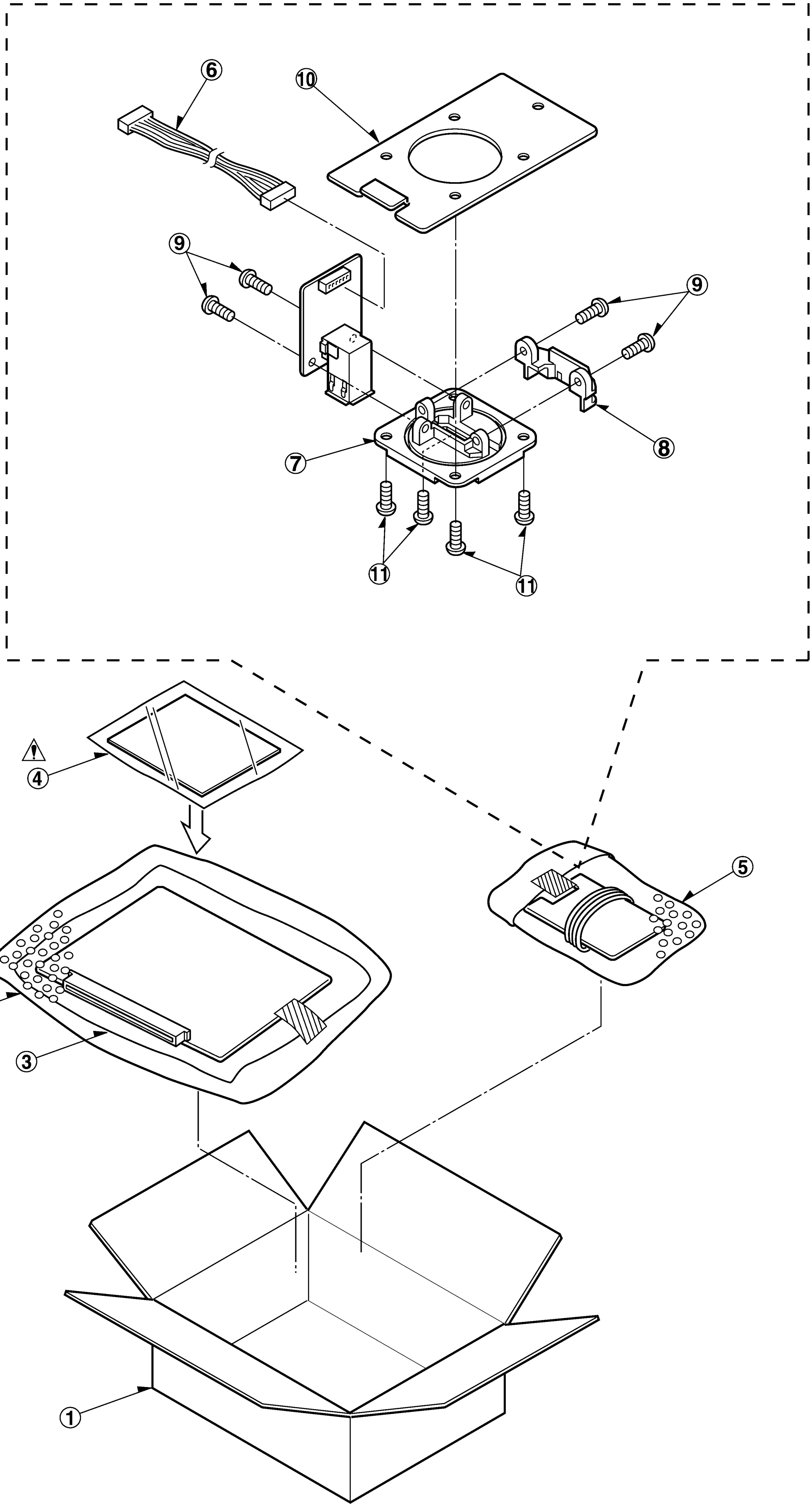
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VJS3462	CONNECTOR (FEMALE)	5	K1SMBDBA0002
2	VPF0678	AIR CAP BAG	1	
3	VPF0359	POLYETHYLENE BAG	1	
⚠ 4	VQT9173	OPERATING INSTRUCTIONS	1	
5	VPF0679	AIR CAP BAG	1	
6	VPG6296	PACKING CASE	1	
7	VMP5900	JACK PANEL	1	
8	VEE9651	SR IN	1	K1RZBBB00003
9	VEE9653	SR OUT 3	1	K1RZBBB00006
10	VEE9652	SR THROUGH	1	K1RZBBB00008
11	VEE9654	SR OUT 2	1	K1RZBBB00009
12	VEE9655	SR OUT 1	1	K1RZBBB00007

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-YAD455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-YAD455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG6296	PACKING CASE	1	
2	VPF0678	AIR CAP BAG	1	
3	VPF0359	POLYETHYLENE BAG	1	
⚠ 4	VQT9174	OPERATIONG INSTRUCTIONS	1	
5	VPF0679	AIR CAP BAG	1	
6	VEE0N57	CABLE	1	
7	VJF1344	CONNECTOR HOLDER (1)	1	
8	VJF1345	CONNECTOR HOLDER (2)	1	
9	XYN2+J6	SCREW	4	
10	VMP6821	JACK PANEL	1	
11	XTN3+6FFY	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-CS455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
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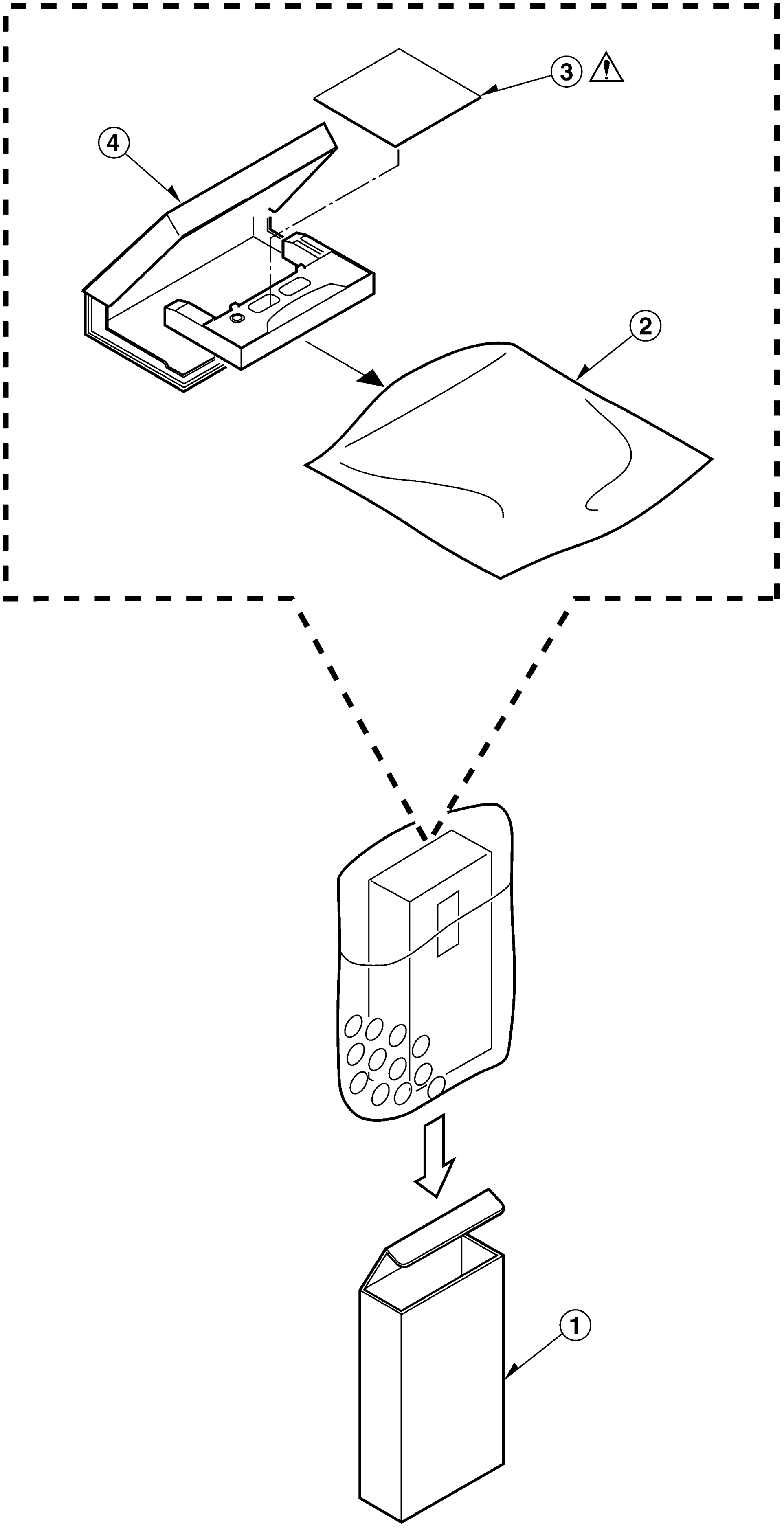


PACKING PARTS ASSEMBLY (AJ-CS455P)

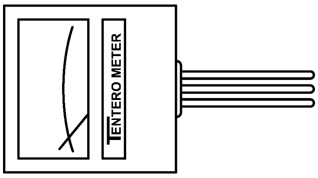
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG8753	PACKING CASE	1	
2	VPF0887	POLYETHYLENE BAG	1	
⚠ 3	VQT9175	OPERATING INSTRUCTIONS	1	
4	VPK1856	M CASSETTE SOFT CASE	1	

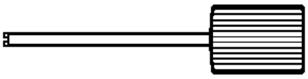
1. SERVICING FIXTURES & TOOLS

NO	NEW	PART NO.	FIXTURE & TOOL NAME	REMARKS
1		VFK1145A	Back Tension Meter	
2		VFK1149A	Post Driver	
3		VFK71A	Dial Torque Gauge (1.5 cN·m)	150 g
4		VFK1191A	Dial Torque Gauge (0.45 cN·m)	45 g
5		VFK1152	Dial Torque Gauge Adapter	
6		VFK0357	Eccentric Screwdriver (1.5 mm)	
7		VFK1154	Post Height Fixture	
8		VFK1153	Mech. Neutral Plate	
9		VFK1155	REV Position Tool (silver)	
10		VFK1156	PLAY Position Tool (black)	
11		VFK1208	Neutral Position Tool (black with hole)	
12		VFK1150	Nut Driver (5.5 mm)	
13		VFK1151	Nut Driver (2.5 mm)	
14		VFK1188A	Dial Tension Gauge	
15		VFK0948A	Check Light	
16		VFK0749	Froiral Grease (white)	for plastics part
17		MOR265	Morlytone Grease (black)	for metal part
18		VFK1146	Philips Driver (Fine) (00-75)	
19		VFK1147	Philips Driver (Fine) (00-100)	
20		VFK1148	Hex. Driver (1.5 mm)	
21		VFK1178	Hex. Driver (0.89 mm)	
22		VFK1179	Hex. Driver (0.71 mm)	
23		VFK1190	Hex. Wrench	
24		VFK1209A	Torque Driver (4 cN·m-30 cN·m)	0.4 kgf·cm –3 kgf·cm
25		VFK1375	Post Axis Driver (1.5 mm)	
26		VFK1300	A/D Board (DAQ-12 Quatech)	
27		VFM3580KM	DVCPRO Alignment Tape (No.1) for NTSC	or VFM3580KL
28		VFM3581KM	DVCPRO Alignment Tape (No.2) for NTSC	or VFM3581KL
29		VFM3582KM	DVCPRO Alignment Tape (No.3) for NTSC	or VFM3582KL
30		VFM3010EDS	DV Alignment Tape (Color Bars) for NTSC	
31		VFM3000EDS	DV Alignment Tape for LISTA	
32		AJ-CL12MP	Cleaning Tape	SALES Route
33		VFK1423	Tape Beg./End Detection Cassette	
34		VFK1192	F Extender Board	
35		VFK1496	Extender Board	
36		VFK1481B	LISTA Software	
37		VFK1186	LISTA Cable	
38		VFK1503	Servo Version up Software	
39		VFK1590	C PLD Writer	
40		VFK1304A	Flash Memory Version up Tool	
41		VFK0906	Lubrication Oil	
42		VZZ0095	Cleaning Cloth	
		-----	EE Cleaner (Olympus Chemitec)	Camera/Electrical Appliances mass merchandisers

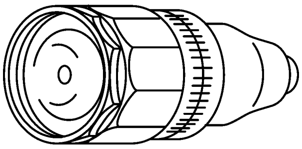
1 **VFK1145A**
Back Tension Meter



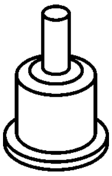
2 **VFK1149A**
Post Driver



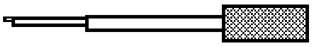
3 **VFK71A**
4 **VFK1191A**
Dial Torque Gauge



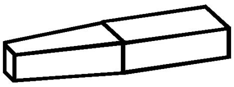
5 **VFK1152**
Dial Torque Gauge
Adapter



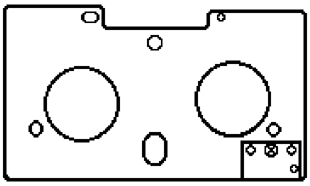
6 **VFK0357**
Eccentric Screwdriver
(1.5 mm)



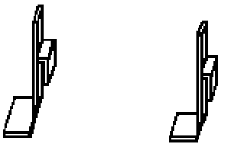
7 **VFK1154**
Post Height Fixture



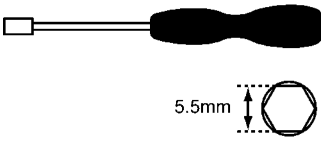
8 **VFK1153**
Mech. Neutral Plate



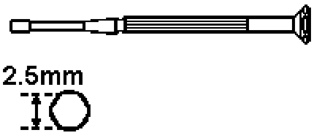
9 **VFK1155** **(REV/Silver)**
10 **VFK1156** **(PLAY/Black)**
11 **VFK1208**
(Neutral/Black with hole)
Position Tool



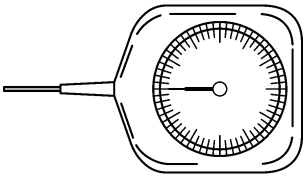
12 **VFK1150**
Nut Driver (5.5 mm)



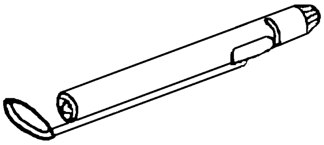
13 **VFK1151**
Nut Driver (2.5 mm)



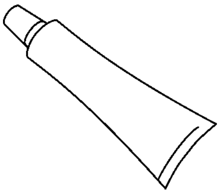
14 **VFK1188A**
Dial Tension Gauge



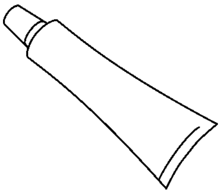
15 **VFK0948A**
Check Light



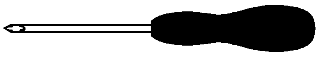
16 **VFK0749**
Froiral Grease
(for plastics)



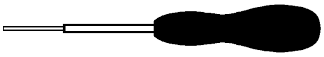
17 **MOR265**
Morlytone Grease
(for metal)



18 **VFK1146 (00X75)**
19 **VFK1147 (0X100)**
Philips Driver (Fine)

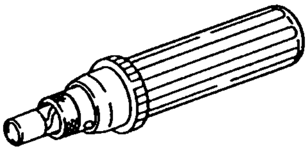


20 **VFK1148 (1.5 mm)**
21 **VFK1178 (0.89 mm)**
22 **VFK1179 (0.71 mm)**
Hex. Driver

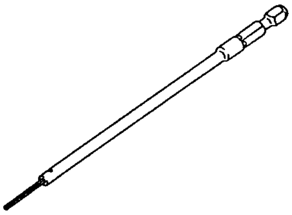


23 **VFK1190 (1.5 mm)**
Hex. Wrench

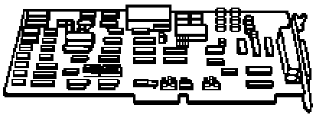
24 **VFK1209A**
Torque Driver

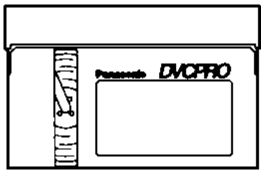
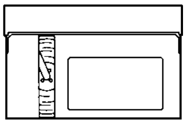
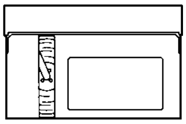
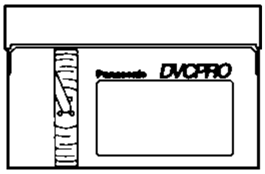
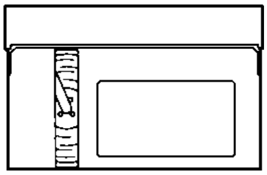
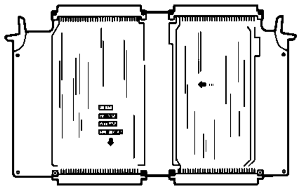
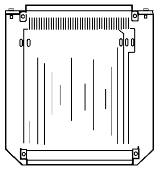
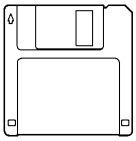
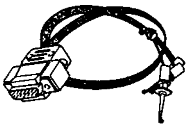
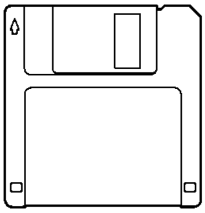
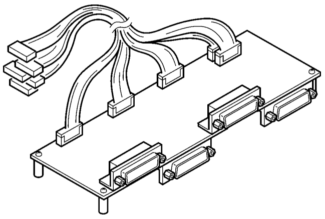
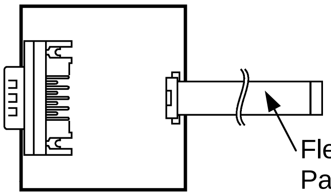
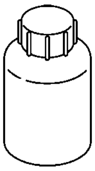
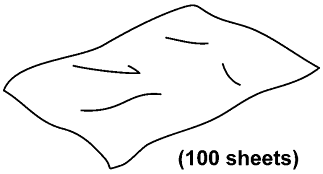
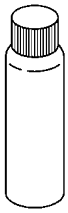


25 **VFK1375**
Post Axis Driver
(1.5 mm)



26 **VFK1300**
A/D Board
(Quatech DAQ-12)



27 **VFM3580KM or L** **28** **VFM3581KM or L** **29** **VFM3582KM or L** DVCPRO Alignment Tape  Panasonic DVCPRO	**30** **VFM3010EDS** DV Alignment Tape (Color Bars) (NTSC) 	**31** **VFM3000EDS** DV Alignment Tape (LISTA) 	**32** **AJ-CL12MP** Cleaning Tape  Panasonic DVCPRO
33 **VFK1423** Tape Beg./End Detection Cassette 	**34** **VFK1192** F Extender Board 	**35** **VFK1496** Extender Board 	**36** **VFK1481B** LISTA Software **37** **VFK1186** LISTA Cable 
38 **VFK1503** Servo Version up software 	**39** **VFK1590** C PLD Writer 	**40** **VFK1304A** Flash Memory Version up Tool (VFK1304 includes the flexible cable "VWJ20E5500L0")  Flexible cable Part No.: VWJ20E5500L0	
41 **VFK0906** Lubrication Oil 	**42** **VZZ0095** Cleaning Cloth  	**43** **-----** EE Cleaner 	

2. Alignment Tape

2-1. VFM3580KM / L (NTSC) (25 M adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar SMPTE(75%)	Confirmation of the composite video level	1KHz –20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
7:00	Color bar (100%)	Confirmation of the composite video level				
14:00	H sweep	Frequency characteristic			6KHz 0VU	A/C head azimuth adjustment
18:00	Bow tie (500K)	Y/C timing				
22:00	Pulse & bar	Y/C timing			300, 500, 1K 2K, 4K, 6KHz	Frequency characteristic
26:00	Area marker	Video start timing			-----	-----

2-2. VFM3581KM / L (NTSC) (Manufacturer (LISTA) adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

2-3. VFM3582KM / L (NTSC) (Manufacturer (X-value) adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purposei	Signal	Purpose
0:00	Color bar (75%) (with drop-out track)	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment

2-4. VFM3010EDS (NTSC) (DV adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar	EQ adjustment	1,102.5KHz		-----	-----

2-5. VFM3000EDS (DV (LISTA) adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	LISTA signal	Adjustment of the linearity	-----	-----	-----	-----

3. List of Recommended Measuring Instruments

MODEL NO. (Example)	NAME	REMARK
	NTSC analog component signal generator (with CF OUT)	
	NTSC analog composite signal generator (with CF OUT)	
1760 (op. SC) or 1780R	SCH meter (NTSC)	Tectronix
	Waveform monitor (NTSC)	
	Vector scope (NTSC)	
	Oscilloscope	
	Digital voltmeter (D.V.M.)	
	Frequency counter	
	Audio noise meter	
	Audio analyzer	
	Spectrum analyzer	

4. Maintenance

4-1. Maintenance Schedule

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the functions always in the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms uses wear parts, and their wear and deterioration causes troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

	Part name	Part No.	Hours of use (unit: hours)				
			Every 1000	**3000**	**6000**	**9000**	**12,000**
-	Cleaning of the travel system	-----	**C: Every 500 hours**				
-	Mechanical chassis unit	VXY1631Z1					**R**
1	Cylinder Unit	VEG1498		**R**	**R**	**R**	**IM**
2	Pinch Arm Unit	VXL2835		**R, G**	**R, G**	**R, G**	**IM**
3	Cleaning Arm Unit	VXL2748	**R, Y**	**R, Y**	**R, Y**	**R, Y**	**IM**
4	S-Reel Moter Unit	VEM0686			**R**		**IM**
5	T-Reel Moter Unit	VEM0687			**R**		**IM**
6	Thrust Screw Unit	VXQ0556			**R, L**		**IM**
7	Mode SW Unit	VES0929			**R**		**IM**
8	S1 Loading Arm Unit	VXL2709					**IM**
9	T1 Boat Unit	VMD2533					**IM**
10	S5 Post Base Unit	VXA6052					**IM**
11	Tension Arm Unit	VXL2831					**IM**
12	A/C Head	VED0419					**IM**
13	Loading Motor (1) Arm Unit	VEM0645					**IM**
14	Reel Drive Motor Unit	VEM0585					**IM**
15	Pinch Solenoid	VSJ0227					**IM**
16	S Brake Solenoid	VSJ0216					**IM**
17	T Brake Solenoid	VSJ0216					**IM**
18	Distinction SW Unit	VXA6199					**IM**
19	Cleaner Solenoid	VSJ0226					**IM**
20	Main Cam Gear	VDG1168					**IM**
21	M Stopper Brake Solenoid	VSJ0216					**IM**
22	Front-loading unit	VXA6070					**R**
23	Front Loading Motor	VXA5597					**F**
24	Fan motor	L6FALEFH0007	Exchange after every 10,000 h of energization				

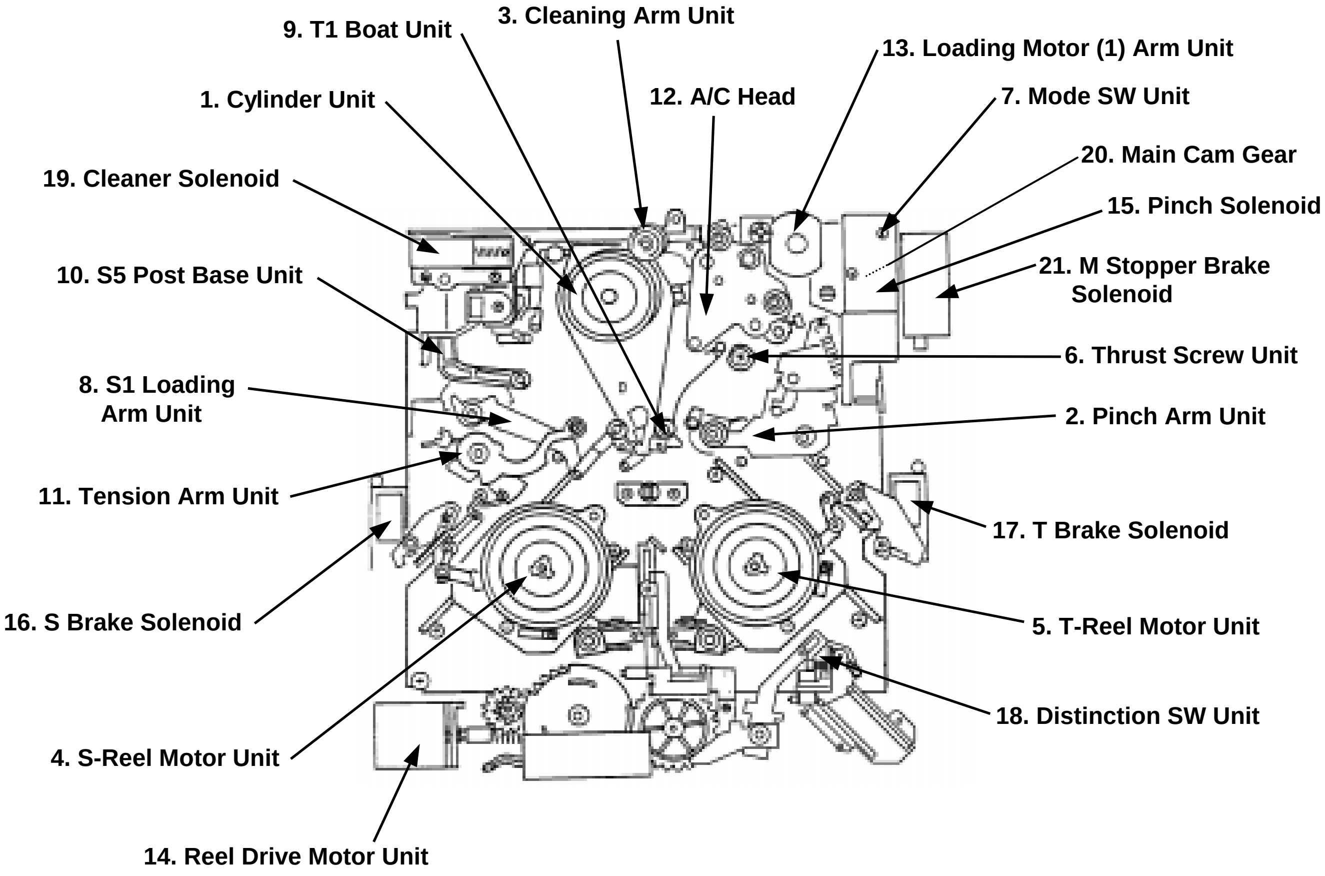
Replacement of the mechanical chassis unit is recommended for the 12,000 h maintenance.

C : Perform cleaning.
R : Assembly subject to exchange.
Y : The timing of replacement with Cleaning Arm Unit, either 1000 hours or 1 year as timing come earlier.
G : At the time of exchange, wipe off the old grease and apply new grease. (Morlytone grease)
L : Lubrication is necessary.
IM : Included in the mechanical chassis unit. When the mechanical chassis unit is not exchanged, exchange as a single part is required.
F : Included in the front-loading unit.

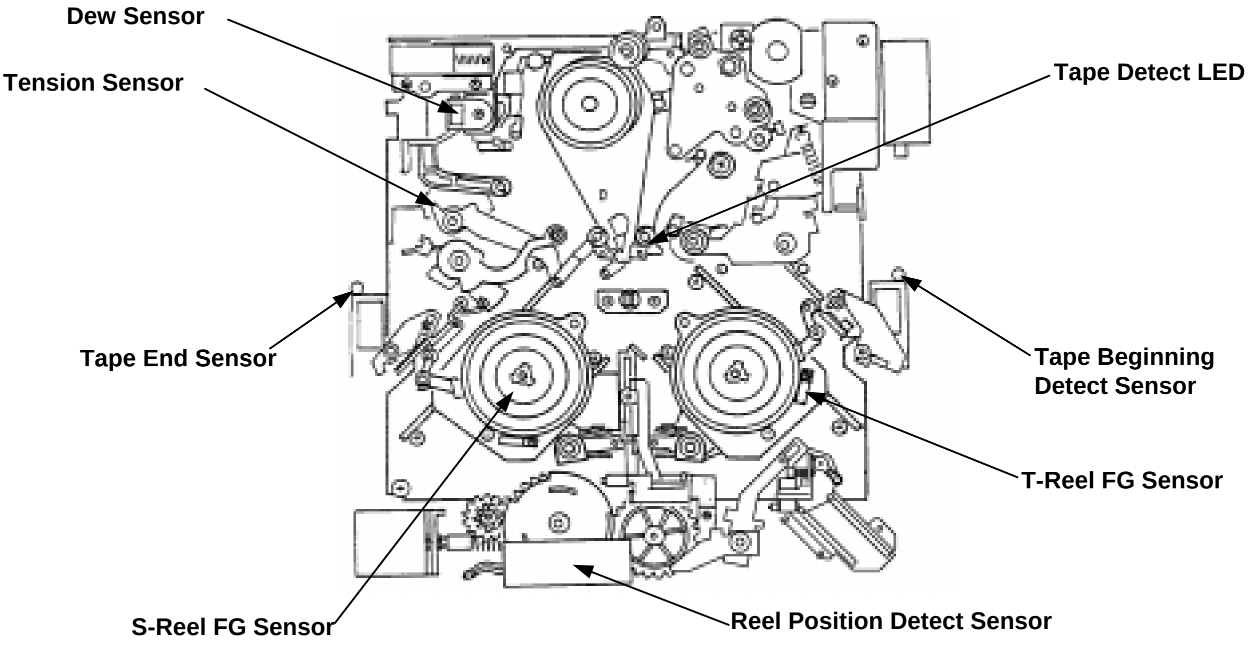
<Note:>

The Hours of use indicates the cylinder rotation time (DRUM RUN).
The maintenance execution time shown in the chart is recommendation for standard maintenance execution. This is not the life of the various parts. The life is influenced by temperature, humidity, dust, etc.
Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

4-2. Layout of the Maintenance Parts


9. T1 Boat Unit
3. Cleaning Arm Unit
13. Loading Motor (1) Arm Unit
1. Cylinder Unit
12. A/C Head
7. Mode SW Unit
20. Main Cam Gear
19. Cleaner Solenoid
15. Pinch Solenoid
10. S5 Post Base Unit
21. M Stopper Brake Solenoid
6. Thrust Screw Unit
8. S1 Loading Arm Unit
2. Pinch Arm Unit
11. Tension Arm Unit
17. T Brake Solenoid
16. S Brake Solenoid
5. T-Reel Motor Unit
18. Distinction SW Unit
4. S-Reel Motor Unit
14. Reel Drive Motor Unit

4-3. Layout of the Other Parts


Dew Sensor
Tension Sensor
Tape Detect LED
Tape End Sensor
Tape Beginning Detect Sensor
T-Reel FG Sensor
S-Reel FG Sensor
Reel Position Detect Sensor

5. Manual Tape Eject (Emergency Eject)

When a tape can not be ejected by normal operation due to some frouble, the tape can be removed manually as follows.

1. Turn off power and remove the top Case Unit.
2. Rotate the red plastic screw by a Phillips-head screwdriver counterclockwise pushing the screw. It needs to rotate until Post starts moving. (about 30 times rotation).

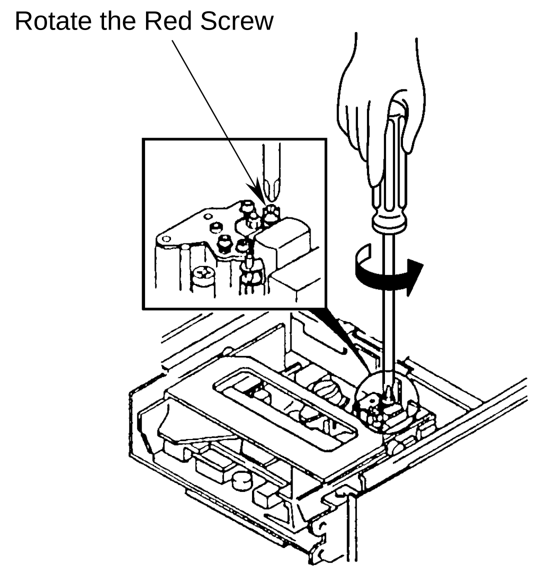


Figure 5-1. Post unloading

3. Since tape slack will occur when the post is unloaded, rotate the supply reel to wind up the tape.
   How to wind up the tape (see Figure 5-2)
   a. Insert the rubber side of the take-up jig to the cassette rid opening position from mechanism side.
   b. Turn the flange of the supply reel in the direction of winding to eliminate the tape slack. (Take care not to damage the tape in the process.)

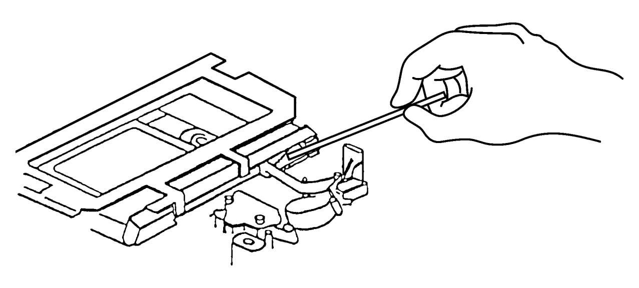


Figure 5-2. Rotate the S Reel

4. Repeat item 2 and 3 until the tape in wound up completely inside of the cassette.
5. When the tape is completely gotten inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a philips-head screwdriver pushing the screw. Remove the cassette with care not to pinch the tape by cassette rid when it is closed.

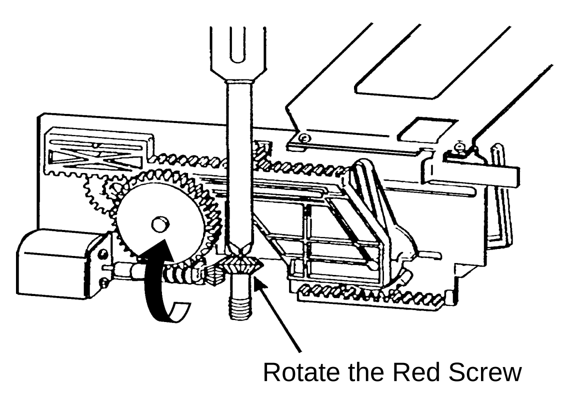
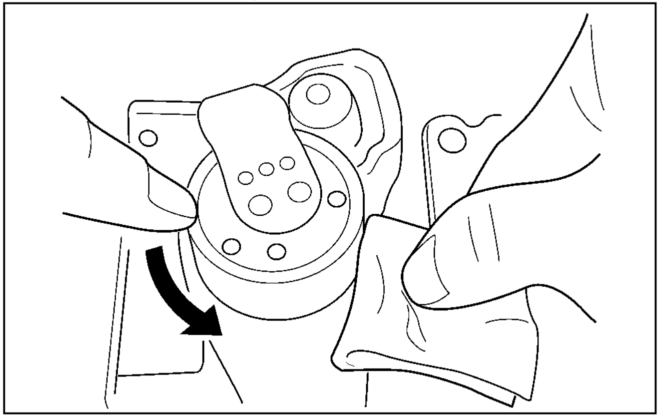


Figure 5-3. Cassette unloading

6. Cylinder Head Cleaning Method

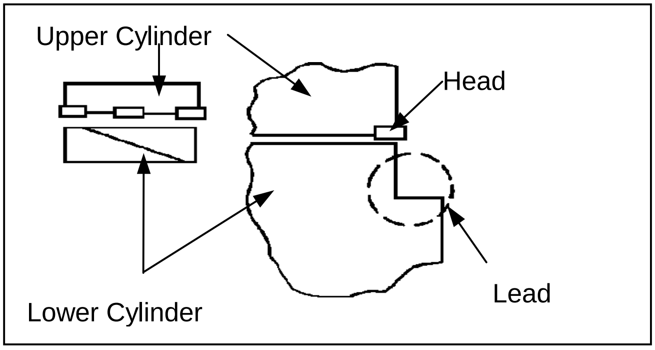
6-1. Cylinder Head Chips Cleaning Method: (Daily)

1. Turn off Power.
2. Dip cloth into De-natural Alcohol.
3. Press cleaning cloth gently against Cylinder Head. Using your finger on the top edge of the upper cylinder, rotate the cylinder counter-clockwise several times to clean.
4. Repeat cleaning procedure until all residue is removed from Cylinder Head.



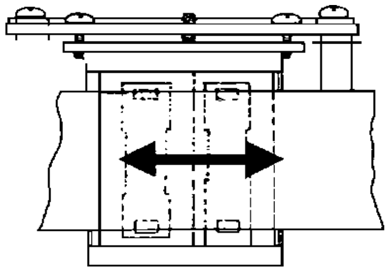
6-2. Cylinder Lead Cleaning Method: (Weekly)

Don't touch a head chip. Clean the drum lead with a pick.



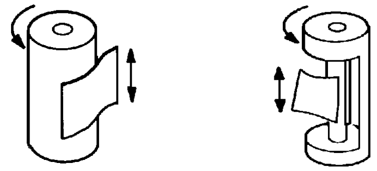
6-3. A/C Head Cleaning Method: (Weekly)

Wipe the A/C head with a cloth dipped in cleaning liquid. Wipe again with a dry cloth.



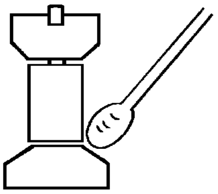
6-4. Pinch Roller and Capstan Shaft Cleaning Method:(Weekly)

Wipe the Pinch Roller and Capstan with a cloth dipped in cleaning liquid.



6-5. Post Cleaning Method: (Weekly)

Wind a cloth on a pick. Wipe each posts with that pick. Wipe again with a dry cloth. For metal posts wipe with a cloth dipped in cleaning liquid. Then wipe it again with dry cloth.

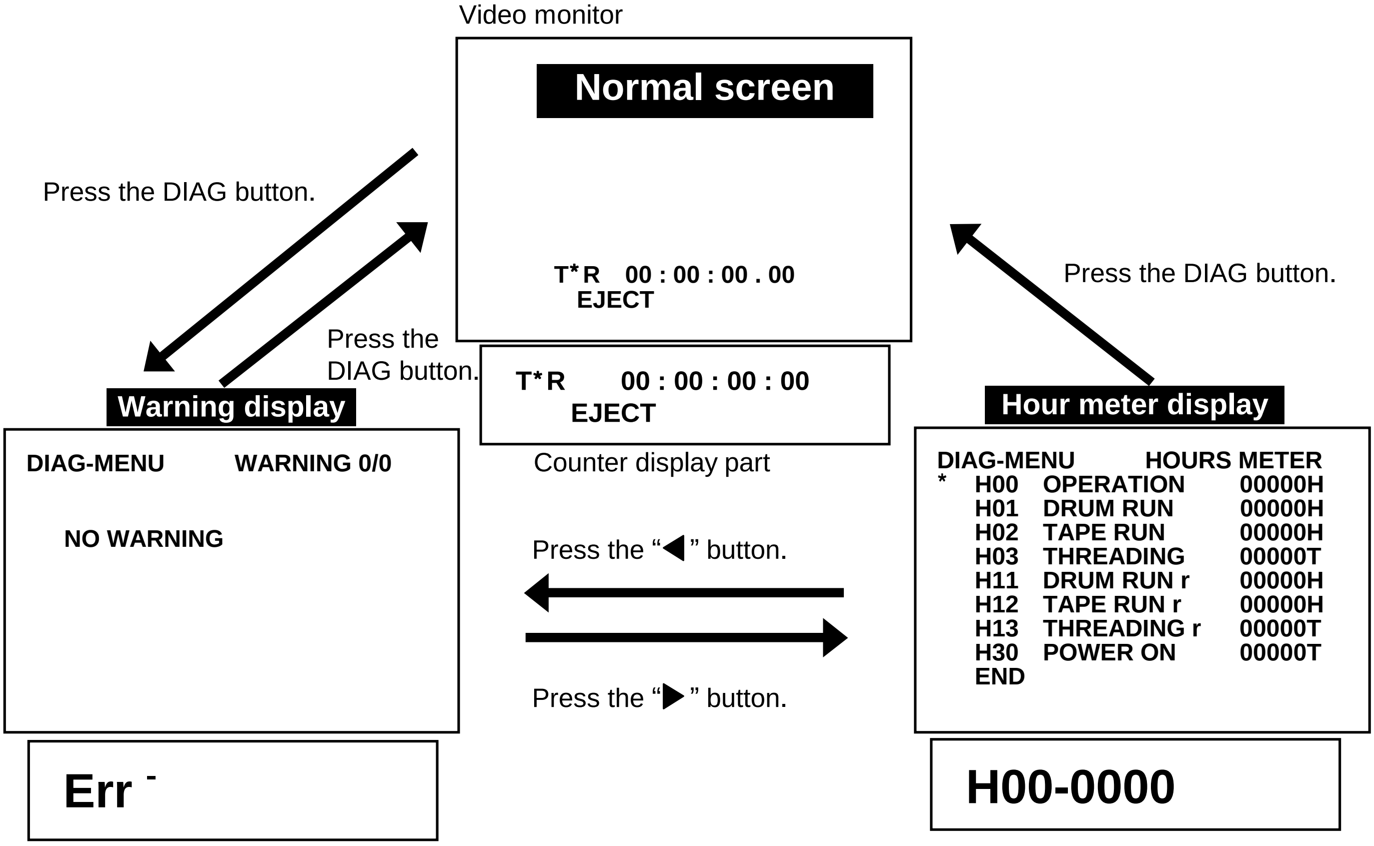


7. DIAG-MENU Display

The **DIAG-MENU** is the menu for investigating the status of the VTR, and it has the warning display (WARNING) and the hour meter display (HOURS METER).

7-1. DIAG-MENU Operation Method

1. Press the “**DIAG**” button.“**DIAG-MENU**” will be displayed on the video monitor (VIDEO OUT 3) and on the counter display (front panel).
2. The display switches between the warning information and the hour meter information each time when the “◀ ▶” is pressed.
3. When the “**DIAG**” button is pressed again, it returns to the normal screen.


Video monitor
Normal screen
Press the DIAG button.
Press the DIAG button.
Press the DIAG button.
Warning display
Hour meter display
Counter display part
Press the “◀” button.
Press the “▶” button.

```
T*R   00 : 00 : 00 . 00
  EJECT
```

```
T*R       00 : 00 : 00 : 00
   EJECT
```

```
DIAG-MENU         WARNING 0/0

    NO WARNING
```

```
Err -
```

```
DIAG-MENU         HOURS METER
*   H00   OPERATION       00000H
    H01   DRUM RUN        00000H
    H02   TAPE RUN        00000H
    H03   THREADING       00000T
    H11   DRUM RUN r      00000H
    H12   TAPE RUN r      00000H
    H13   THREADING r     00000T
    H30   POWER ON        00000T
    END
```

```
H00-0000
```

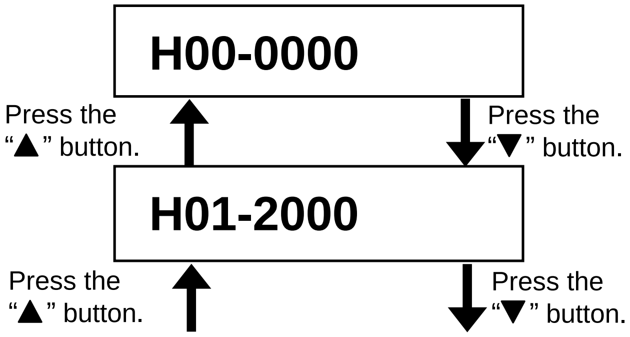
Please refer to operating instructions, in regard to the WARNING display (information).

7-2. Hour Meter Display

1. When the “▼” and “▲” button is pressed during hour meter display, the operation hours for each item can be confirmed on the counter display part (front panel).

```
DIAG-MENU         HOURS METER
*  H00   OPERATION       00000H
   H01   DRUM RUN        00000H
   H02   TAPE RUN        00000H
   H03   THREADING       00000T
   H11   DRUM RUN r      00000H
   H12   TAPE RUN r      00000H
   H13   THREADING r     00000T
   H30   POWER ON        00000T
   END
```

Video monitor



Counter display part (front panel)

7-3. How to Reset the Hour Meter

DRUM RUN, TAPE RUN and THREADING information can be reset individually.

1. Press the “EJECT” and “STOP” button simultaneously, and press the “DIAG” button. The Hour Meter page is displayed on the video monitor (VIDEO OUT 3).
2. Set the cursor “*” to the indicated “r” mark item(item H11,12 or 13) by pressing the cursor buttons (5 or 6). And press “RESET” button on the front panel, then the following message appears on the screen.

```
HOUR METER INIT SET


DRUM RUN r OK?
YES<PLAY> / NO <STOP>
```

3. Press “PLAY” button to reset the hour meter or “STOP” button to ignore the reset.

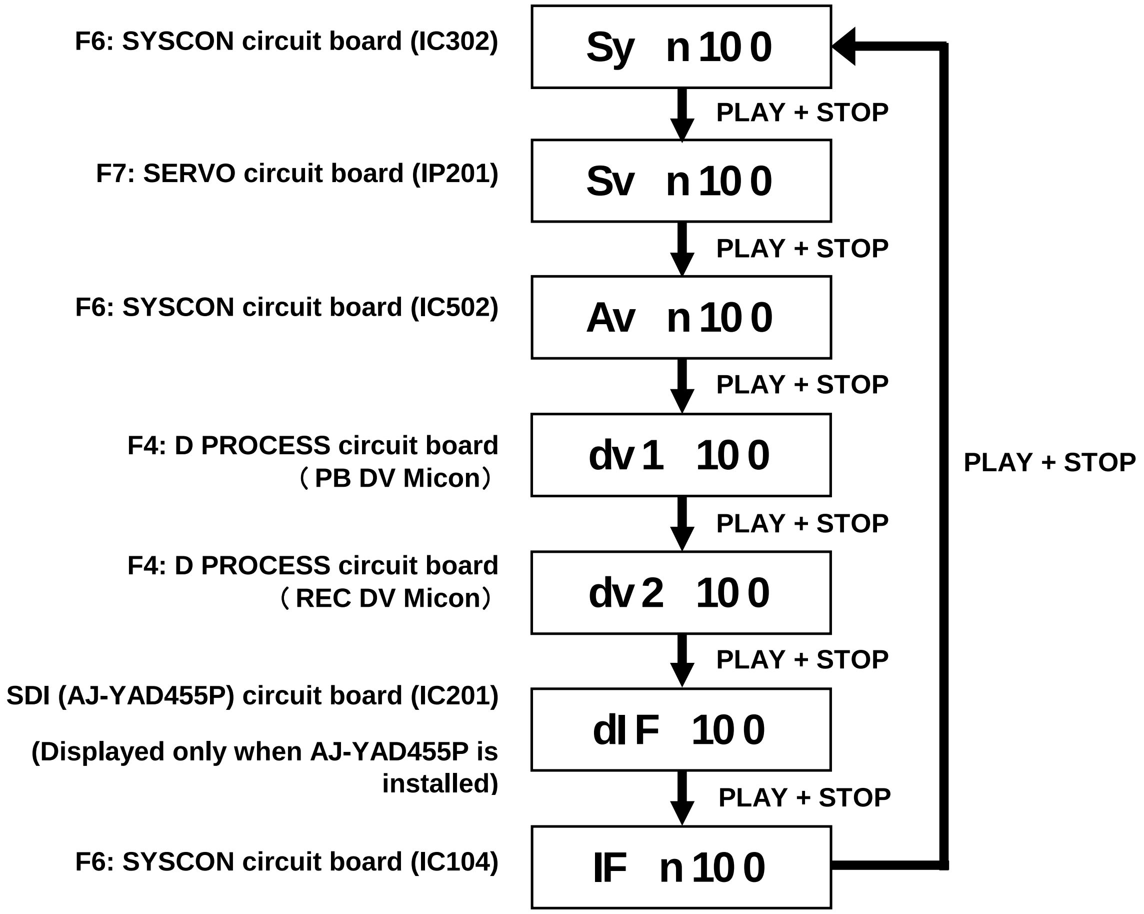
<Note>

Be careful, if press the “RESET” button more than 2 seconds when select the item H00-H03 and H30, the all hour meter informations are reseted to ZERO.

8. Software Version Display

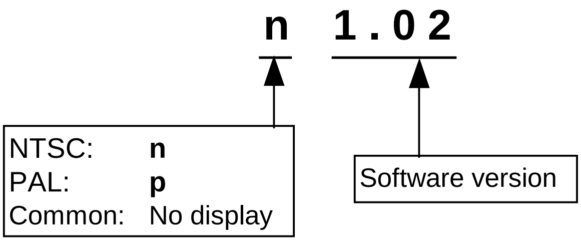
8-1. Version Display Operation Procedure

1. Press the “**EJECT**” button. (If a tape is inserted, eject it.)
2. When the “**PLAY**” button and the “**STOP**” button are pressed simultaneously, the version will be displayed on the counter display part (front panel) while these buttons are being pressed.
3. When the “**PLAY**” button and the “**STOP**” button are pressed again, the software version for each item can be confirmed.


F6: SYSCON circuit board (IC302)
Sy n10 0
PLAY + STOP
F7: SERVO circuit board (IP201)
Sv n10 0
PLAY + STOP
F6: SYSCON circuit board (IC502)
Av n10 0
PLAY + STOP
F4: D PROCESS circuit board (PB DV Micon)
dv1 10 0
PLAY + STOP
F4: D PROCESS circuit board (REC DV Micon)
dv2 10 0
PLAY + STOP
SDI (AJ-YAD455P) circuit board (IC201)
(Displayed only when AJ-YAD455P is installed)
dI F 10 0
PLAY + STOP
F6: SYSCON circuit board (IC104)
IF n10 0
PLAY + STOP

Counter diplay part (front panel)

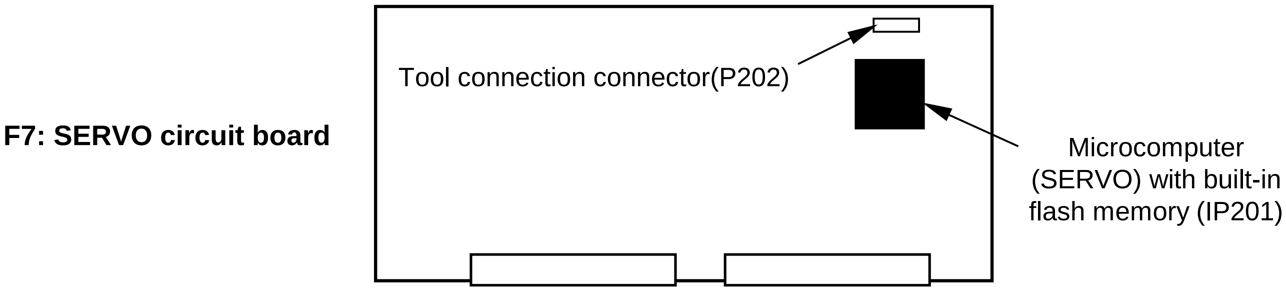
8-2. How to Read the Version Display


n 1.02
NTSC: n
PAL: p
Common: No display
Software version

9. Software Version Upgrade Method

9-1. Version Upgrade for the SERVO Microcomputer with Built-in Flash Memory

The SERVO microcomputer of the **F7: SERVO** circuit board has a built-in flash memory. For the software version up, connect the “**Flash memory version up tool (VFK1304A)**” to the tool connection connector and use the “**Servo version up software (VFK1503)**” according to the following procedure.


F7: SERVO circuit board
Tool connection connector(P202)
Microcomputer (SERVO) with built-in flash memory (IP201)

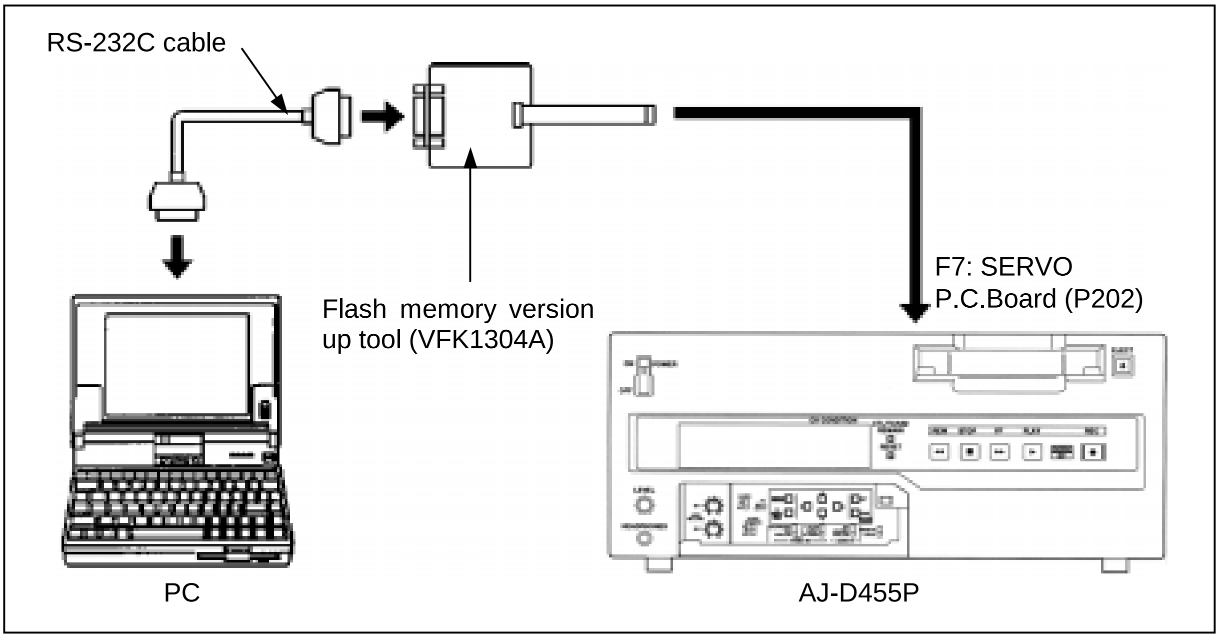
1. Prepare a personal computer (MS-DOS, Windows 95 or 98).
2. Copy the servo version up software (VFK1503) and the new servo microcomputer software into the same directory of the personal computer. (The following four types of software.)

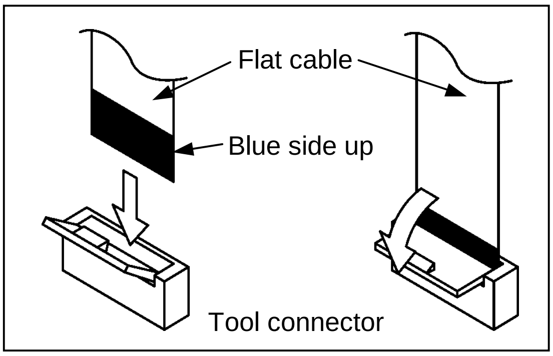
Version up software (VFK1503)	**“fw103u.exe”**
Servo microcomputer software	**“vsiXXXX.obf”**
	“vsiXXXX.bat”
	“vsiXXXX.ex”

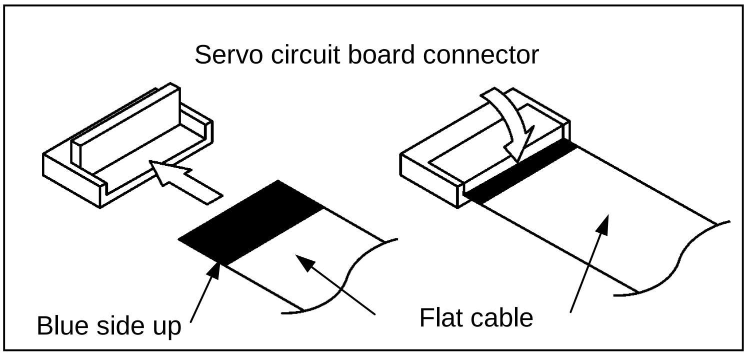
3. Confirm the switch settings for the “Flash memory version up tool (VFK1304A)”.

SW1-1: ON	**SW1-3: OFF**
SW1-2: ON	**SW1-4: OFF**

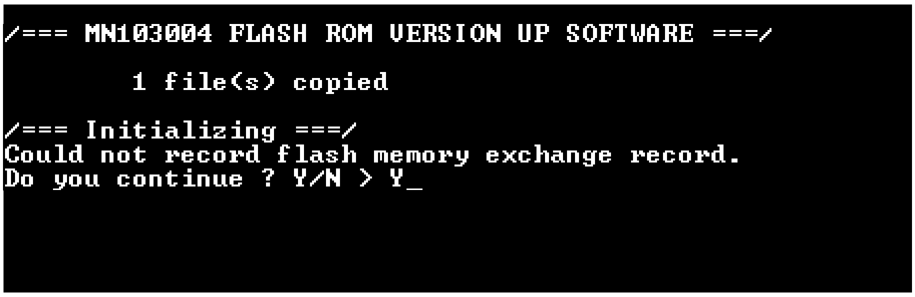
4. Connect the AJ-D455P, the “Flash memory version up tool (VFK1304A)”, and the personal computer as shown below. Pay attention not to confuse the connection direction (rear, front) for the flat cable of the tool (VFK1304A).


RS-232C cable
Flash memory version up tool (VFK1304A)
F7: SERVO P.C.Board (P202)
PC
AJ-D455P



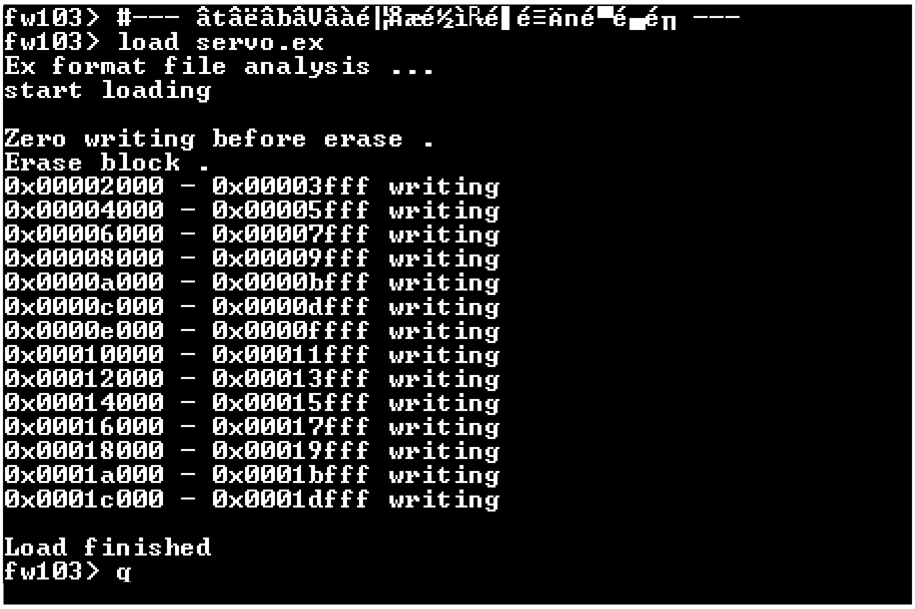


5. Turn on the AJ-D455P power.
6. Execute the “**VSIXXX.bat**” copied to the personal computer. It also can be done directly on Windows. (During execution, the file “servo.exe” will be created, but this may be left in the directory without any problems.)
7. When the following screen is displayed, enter “Y” and press “**ENTER**”. (During program writing, the progress is shown on the display of the personal computer.)



```
/=== MN103004 FLASH ROM VERSION UP SOFTWARE ===/

        1 file(s) copied

/=== Initializing ===/
Could not record flash memory exchange record.
Do you continue ? Y/N > Y_
```

8. Writing is completed when the following screen appears.



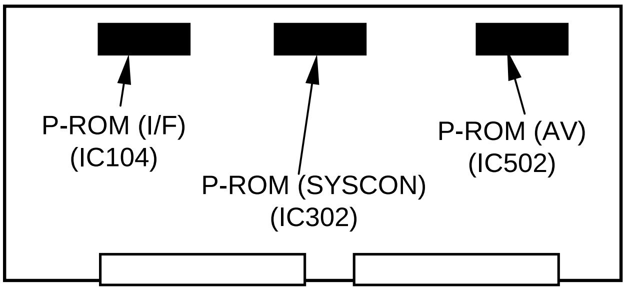
```
fw103> #--- âtâëâbâVâàé|╢æé½ì₧é▌é≡Äné▀é▄éπ ---
fw103> load servo.ex
Ex format file analysis ...
start loading

Zero writing before erase .
Erase block .
0x00002000 - 0x00003fff writing
0x00004000 - 0x00005fff writing
0x00006000 - 0x00007fff writing
0x00008000 - 0x00009fff writing
0x0000a000 - 0x0000bfff writing
0x0000c000 - 0x0000dfff writing
0x0000e000 - 0x0000ffff writing
0x00010000 - 0x00011fff writing
0x00012000 - 0x00013fff writing
0x00014000 - 0x00015fff writing
0x00016000 - 0x00017fff writing
0x00018000 - 0x00019fff writing
0x0001a000 - 0x0001bfff writing
0x0001c000 - 0x0001dfff writing

Load finished
fw103> q
```

9. Turn off the AJ-D455P power and disconnect the cables connected.

9-2. E-PROM (SYSCON, IF, AV) Version Upgrade

The **F6: SYSCON** circuit board use an E-PROM (SYSCON, I/F, AV).
For the software version up, replace an E-PROM with the new version.

F6: SYSCON circuit board


P-ROM (I/F)
(IC104)
P-ROM (SYSCON)
(IC302)
P-ROM (AV)
(IC502)

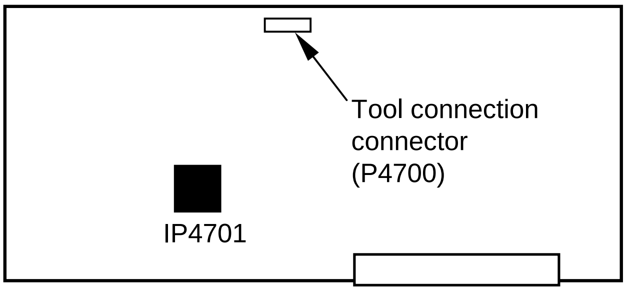
9-3. PLD Version Upgrade Procedure

The AJ-D455P uses **PLDs**. At the time of a version upgrade, use the special tool, connect the respective connection connectors, and use the PLD writing software.

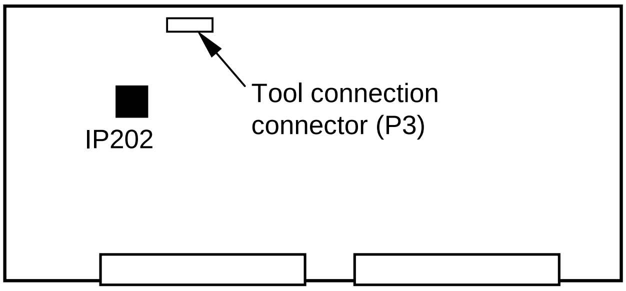
9-3-1. PLD Chart

Circuit board name	Connector	Number of pins'	PLD No.	PLD maker	Use quantity
F1: AUDIO	P4700	8P	EPM3256A1410	ALTERA	1
F2: V OUT	P3	8P	EPC2TC32	ALTERA	1
F3A: SDI (AJ-YA455P)	P3500	8P	XC1801VQ44C	XILINX	1
F4: D PROCESS	P3101	8P	EPC2TC32	ALTERA	2
F5: V IN	P3002	8P	EPC2TC32	ALTERA	1
F7: SERVO	P300	8P	EPM3256A1410	ALTERA	1

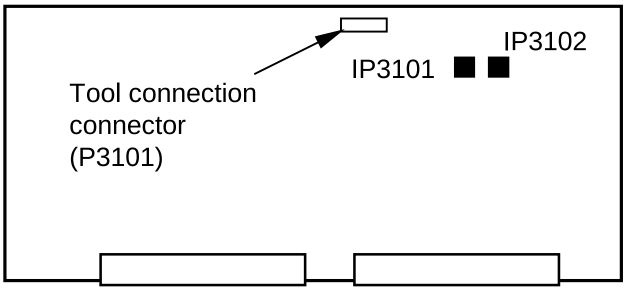
F1: AUDIO cuircuit board


Tool connection
connector
(P4700)
IP4701

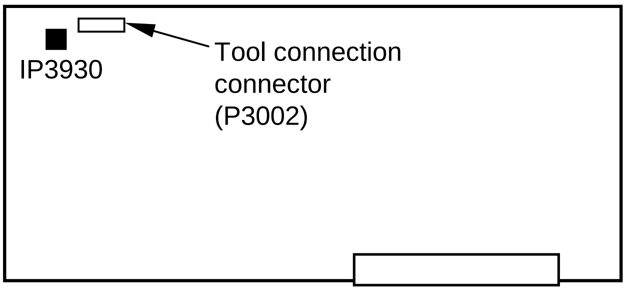
F2: V OUT circuit board


Tool connection
connector (P3)
IP202

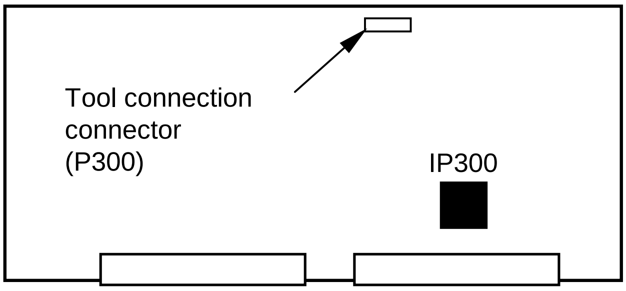
F4: DIGITAL PROCCESS circuit board (Foil side)


IP3102
IP3101
Tool connection
connector
(P3101)

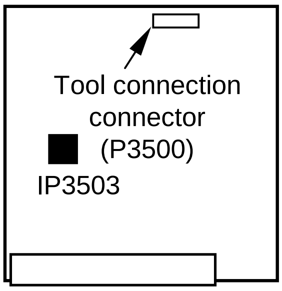
F5: V IN circuit board


IP3930
Tool connection
connector
(P3002)

F7: SERVO circuit board


Tool connection
connector
(P300)
IP300

F3A: SDI (AJ-YA455P) circuit board


Tool connection
connector
(P3500)
IP3503

9-3-2. CPLD Version up Method 1 (ALTERA)

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P2 (VFK1590 standard)
D-sub 25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	MAX+plus II Software (Please Download from www.altera.com/pub/software/asap2.exe)
Version Upgrade Data	TDF File or POF (Include in “vsi xxxx” file)
Personal Computer	WINDOWS 95® or 98®

B. Connection

1. Connect the D-sub Cable between CN201(for ALTERA) connector of the CPLD WRITER (VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P2) between connector on objective PCB and P2 connector of CPLD WRITER. (Refer to 9-3-1.Chart of PLD Writer and Figure 9-3-2.)
3. Turn on AJ-D455P and Personal Computer (Windows mode).

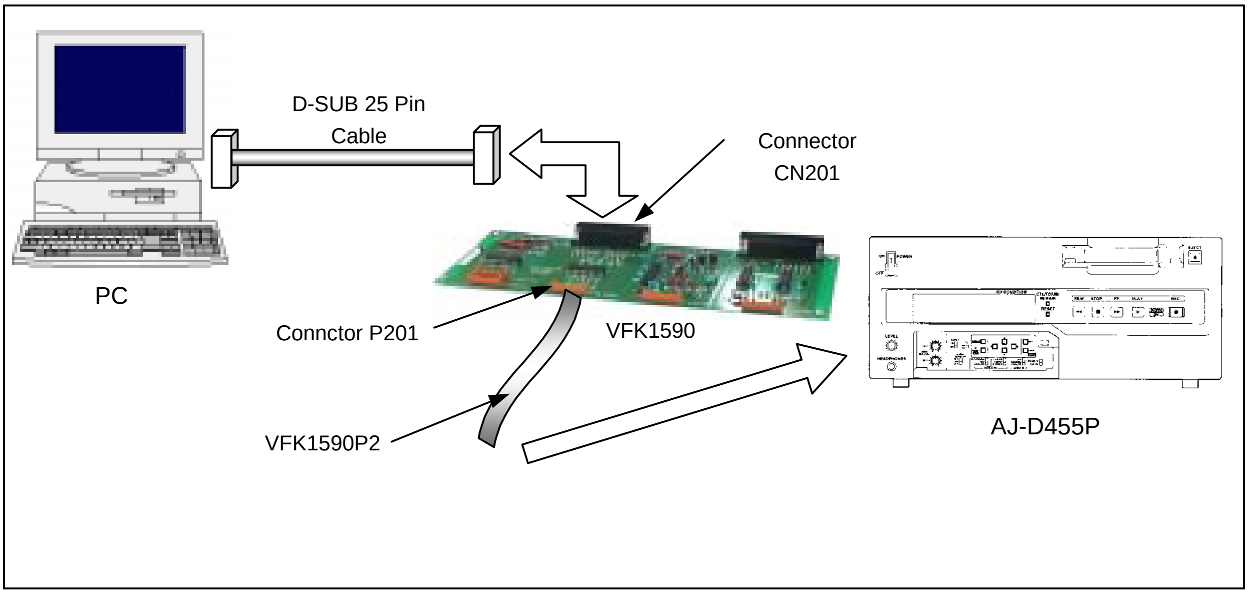
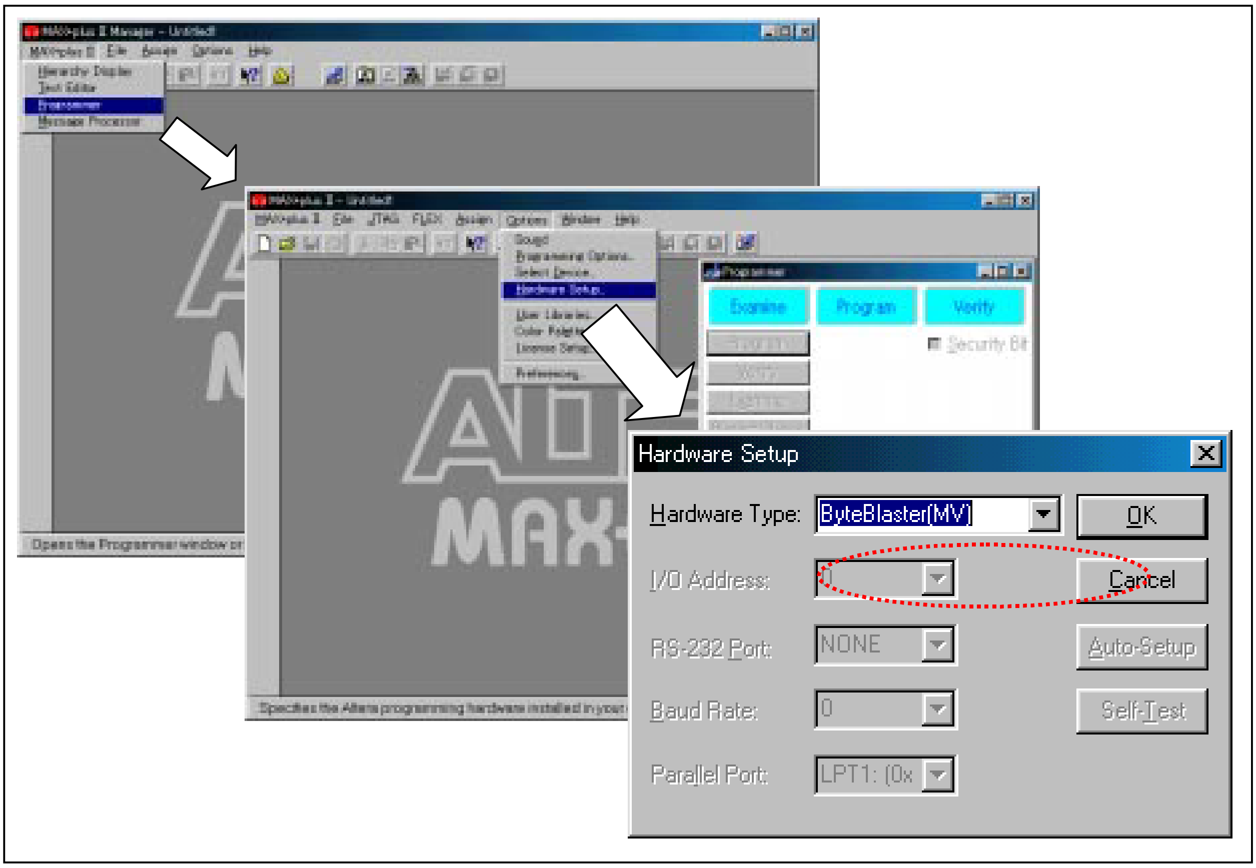


Figure 9-3-2 Connection for CPLD version up

C. Boot up the Ver. up Software and Ver. up Procedure

1. Boot up the **“MAX+plus II 9.6 programmer only”** Software.
2. On main window, select tab **“MAX+plus II”** and then **“Programmer”**.
3. On main window (Programmer window is displayed), select tab **“Option”** and then **“Hardware Setup”**.
4. On **Hardware Setup** dialog, set the **“Hardware Type”** to **“yte Blaster (MV) ”**.


MAX+plus II Manager - Untitled
MAX+plus II
File
Assign
Options
Help
Hierarchy Display
Text Editor
Programmer
Message Processor
Opens the Programmer window or
MAX+plus II - Untitled
JTAG
FLEX
Window
Sound
Programming Options...
Select Device...
Hardware Setup...
User Libraries...
Color Palette...
License Setup...
Preferences...
Programmer
Examine
Program
Verify
Security Bit
Specifies the Altera programming hardware installed in your
Hardware Setup
OK
Cancel
Auto-Setup
Self-Test

Hardware Type: ByteBlaster(MV)

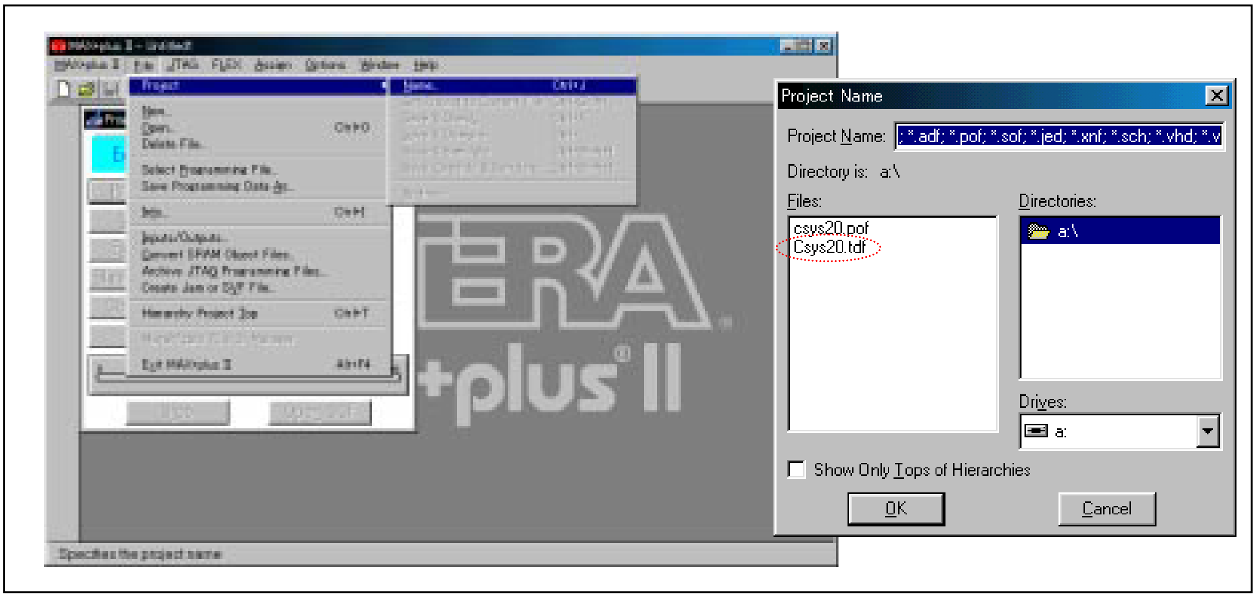
I/O Address: 0

RS-232 Port: NONE

Baud Rate: 0

Parallel Port: LPT1: (0x

5. On main window, select tab **“File”**, **“Project”** and then **“Name”**.
6. On dialog of **Project Name**, select the **“tdf format file”** or **“pof format file”** and then perss **“OK”** button.


MAX+plus II - Untitled
MAX+plus II
File
JTAG
FLEX
Assign
Options
Window
Help
Project
Name... Ctrl+J
New...
Open... Ctrl+O
Delete File...
Select Programming File...
Save Programming Data As...
Info... Ctrl+I
Inputs/Outputs...
Convert SRAM Object Files...
Archive JTAG Programming Files...
Create Jam or SVF File...
Hierarchy Project Top Ctrl+T
Exit MAX+plus II Alt+F4
Specifies the project name
Project Name
OK
Cancel

Project Name: *.adf; *.pof; *.sof; *.jed; *.xnf; *.sch; *.vhd; *.v

Directory is: a:\

Files:
csys20.pof
Csys20.tdf

Directories:
a:\

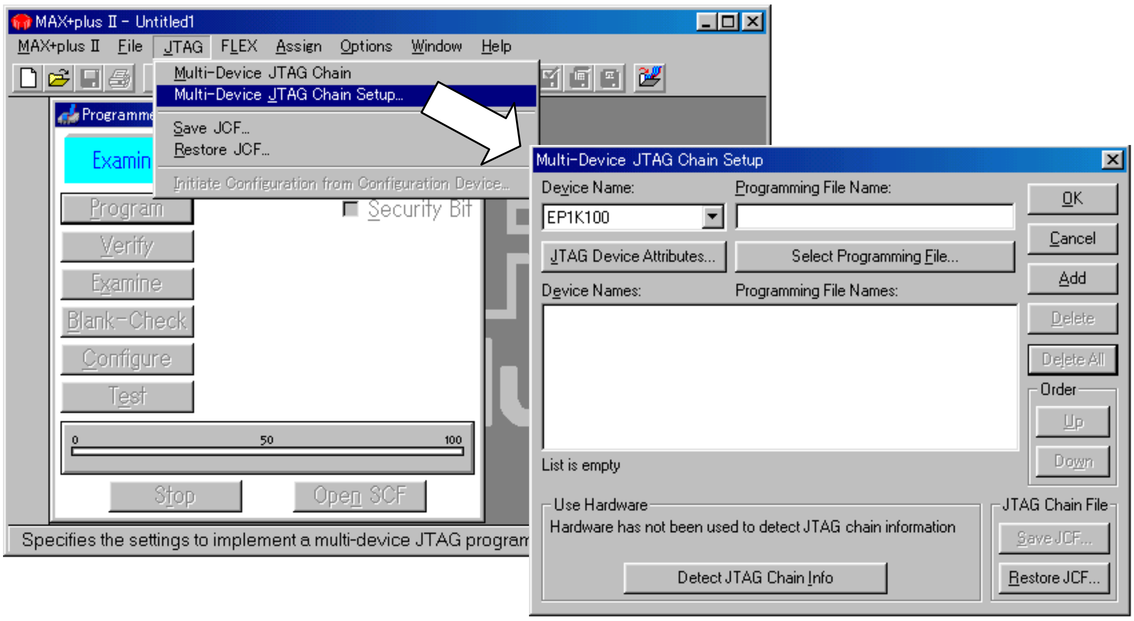
Drives: a:

☐ Show Only Tops of Hierarchies

<Reference : Creation of chain file>

Use a **“chain file (in jcf format)”** for write-operation when a PCB includes several PLDs.
If no chain file has been created, create a chain file by the following procedures. (Example of L1 PCB)

A. Select **“Multi-Device JTAG Chain Setup”** on the main screen to display the **“Multi-Device JTAG Chain Setup”** screen.


MAX+plus II - Untitled1
MAX+plus II
File
JTAG
FLEX
Assign
Options
Window
Help
Multi-Device JTAG Chain
Multi-Device JTAG Chain Setup...
Save JCF...
Restore JCF...
Initiate Configuration from Configuration Device...
Programmer
Examine
Program
Verify
Examine
Blank-Check
Configure
Test
Security Bit
0
50
100
Stop
Open SCF
Multi-Device JTAG Chain Setup
Device Name:
Programming File Name:
OK
Cancel
Add
Delete
Delete All
Order
Up
Down
JTAG Device Attributes...
Select Programming File...
Device Names:
Programming File Names:
Use Hardware
Detect JTAG Chain Info
JTAG Chain File
Save JCF...
Restore JCF...

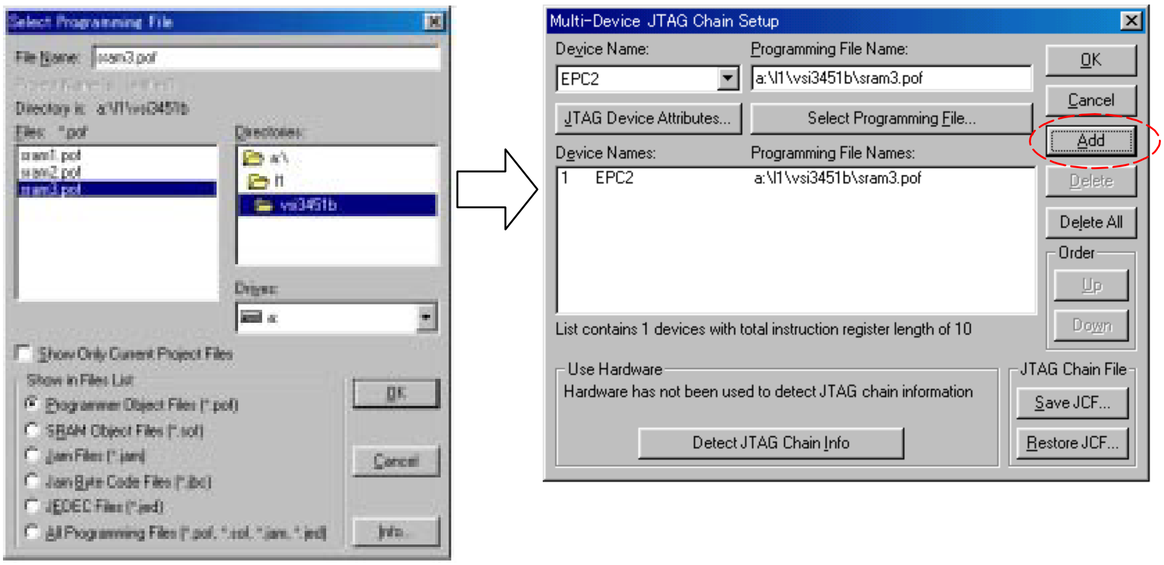
Device Name: EP1K100

List is empty

Hardware has not been used to detect JTAG chain information

Specifies the settings to implement a multi-device JTAG program

B. Click the **“Select Programming File”** button to display the **“Select Programming File”** screen. Next, select the drive which has software, and select the **“pof”** file. If three pof files can be seen as shown below, select a file in order of larger number, and click the **“OK”** button. Then, the **“Multi-Device JTAG Chain Setup”** screen is displayed.


Select Programming File
Files: *.pof
Directories:
a:\
l1
vsi3451b
Drives:
a:
Show Only Current Project Files
Show in Files List
Programmer Object Files (*.pof)
SRAM Object Files (*.sof)
Jam Files (*.jam)
Jam Byte Code Files (*.jbc)
JEDEC Files (*.jed)
All Programming Files (*.pof, *.sof, *.jam, *.jed)
OK
Cancel
Info...
Multi-Device JTAG Chain Setup
Device Name:
Programming File Name:
OK
Cancel
Add
Delete
Delete All
Order
Up
Down
JTAG Device Attributes...
Select Programming File...
Device Names:
Programming File Names:
Use Hardware
Detect JTAG Chain Info
JTAG Chain File
Save JCF...
Restore JCF...

File Name: sram3.pof

Directory is: a:\l1\vsi3451b

sram1.pof
sram2.pof
sram3.pof

Device Name: EPC2

Programming File Name: a:\l1\vsi3451b\sram3.pof

1 EPC2 a:\l1\vsi3451b\sram3.pof

List contains 1 devices with total instruction register length of 10

Hardware has not been used to detect JTAG chain information

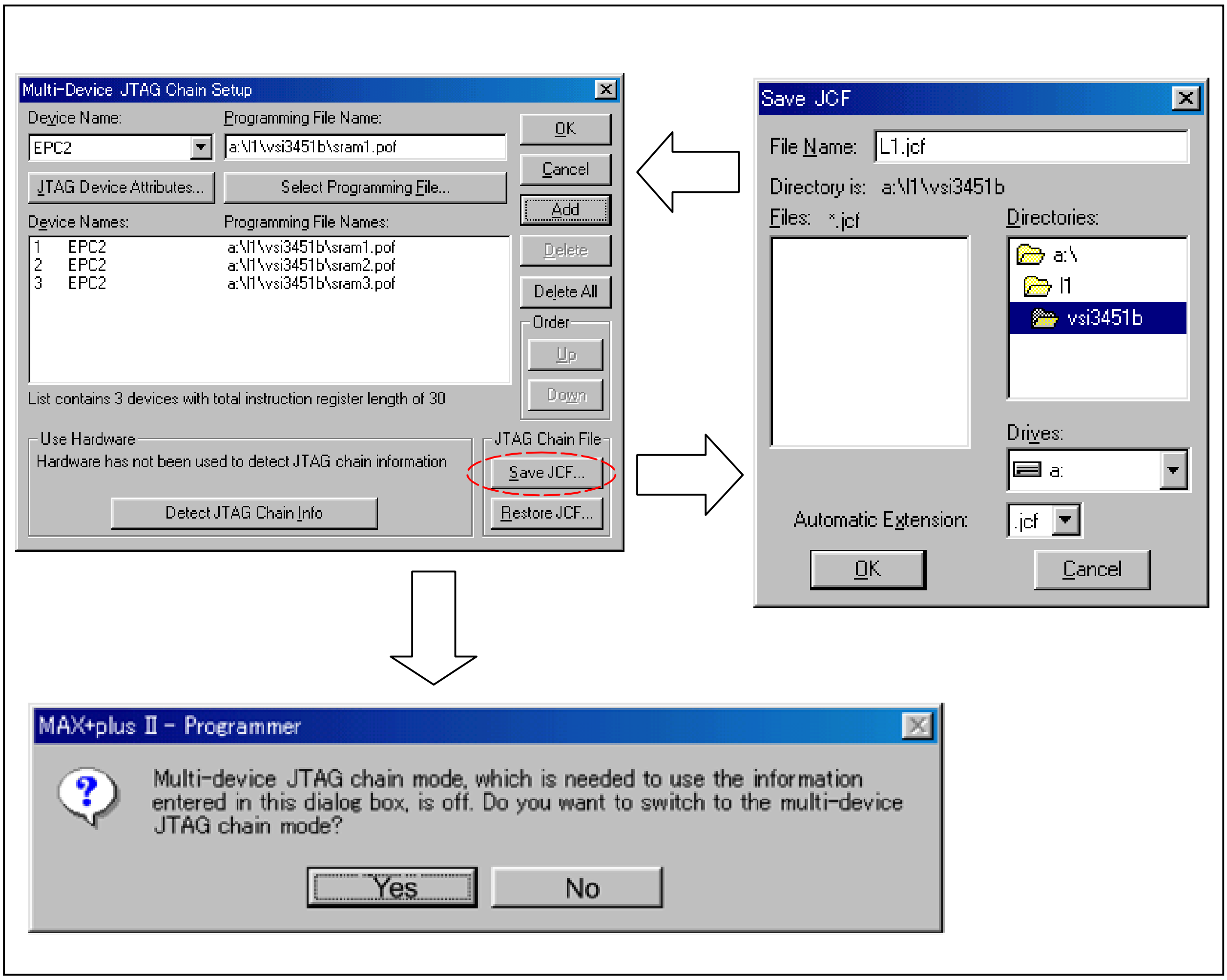
C. Chick the **“Add”** button on the **“Multi-Device JTAG Chain Setup”** screen.

D. Repeat the steps 2 and 3 to capture the **"pof"** file.

E. Click the **"Save JCF"** button. Then, the **"Save JCF"** screen is displayed.

F. Enter a file name, and click the **"OK"** button.

G. Click the "OK" button on the **"Multi Device JTAG Chain Setup"** screen. Then, the following message is displayed : Multi-device JTAG chain mode, which is needed to use the information entered in this dialog box, is off. Do you want to switch to the multi-device JTAG chain mode ?
When this message is displayed, click **"YES"**.


Multi-Device JTAG Chain Setup

Device Name: EPC2

Programming File Name: a:\l1\vsi3451b\sram1.pof

Device Names:		Programming File Names:
1	EPC2	a:\l1\vsi3451b\sram1.pof
2	EPC2	a:\l1\vsi3451b\sram2.pof
3	EPC2	a:\l1\vsi3451b\sram3.pof

List contains 3 devices with total instruction register length of 30

Use Hardware: Hardware has not been used to detect JTAG chain information

Save JCF

File Name: L1.jcf

Directory is: a:\l1\vsi3451b

Files: *.jcf

Directories: a:\ / l1 / vsi3451b

Drives: a:

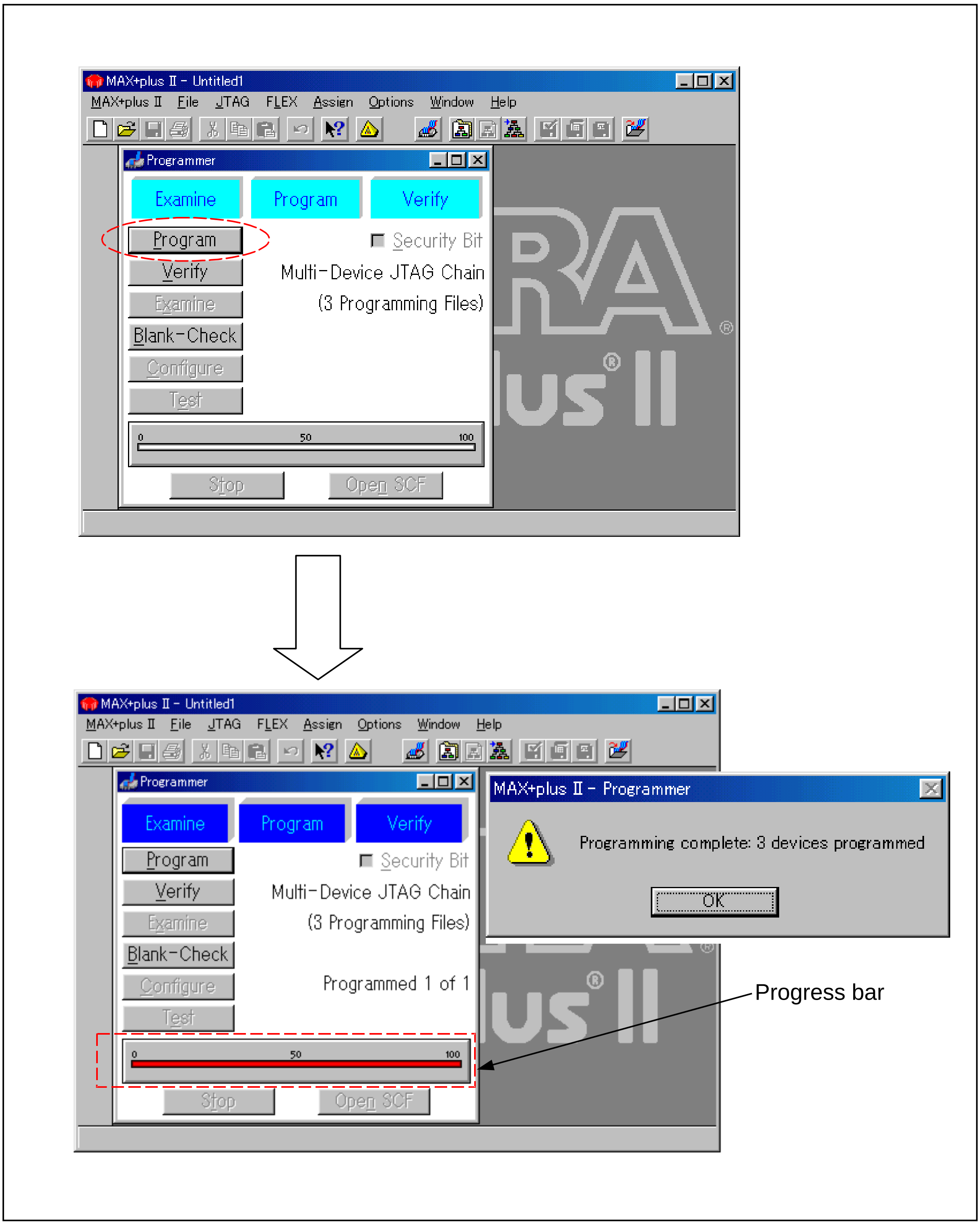
Automatic Extension: .jcf

MAX+plus II - Programmer

Multi-device JTAG chain mode, which is needed to use the information entered in this dialog box, is off. Do you want to switch to the multi-device JTAG chain mode?

OK
Cancel
Add
Delete
Delete All
Order
Up
Down
JTAG Device Attributes...
Select Programming File...
JTAG Chain File
Save JCF...
Restore JCF...
Detect JTAG Chain Info
OK
Cancel
Yes
No

7. Click the **“Program”** button on Programmer dialog.
8. When Progress Bar reaches at point of **100**, the message “Programming Complete” appears, then PLD version upgrade is completed. Click **“OK”** button on the **Programming complete** message Dialog.


MAX+plus II - Untitled1
MAX+plus II File JTAG FLEX Assign Options Window Help
Programmer
Examine
Program
Verify
Program
Verify
Examine
Blank-Check
Configure
Test
☐ Security Bit
0
50
100
Stop
Open SCF
MAX+plus II - Programmer
OK
Progress bar

Multi-Device JTAG Chain
(3 Programming Files)

Programmed 1 of 1

Programming complete: 3 devices programmed

* MAX+PLUS are registered tradmarks of Altera Corporation.
* Windows95 and Windows98 are registered tradmarks of Microsoft Corporation.

9-3-3. PLD Version up Method 2 (XILINX)

A. Preparation

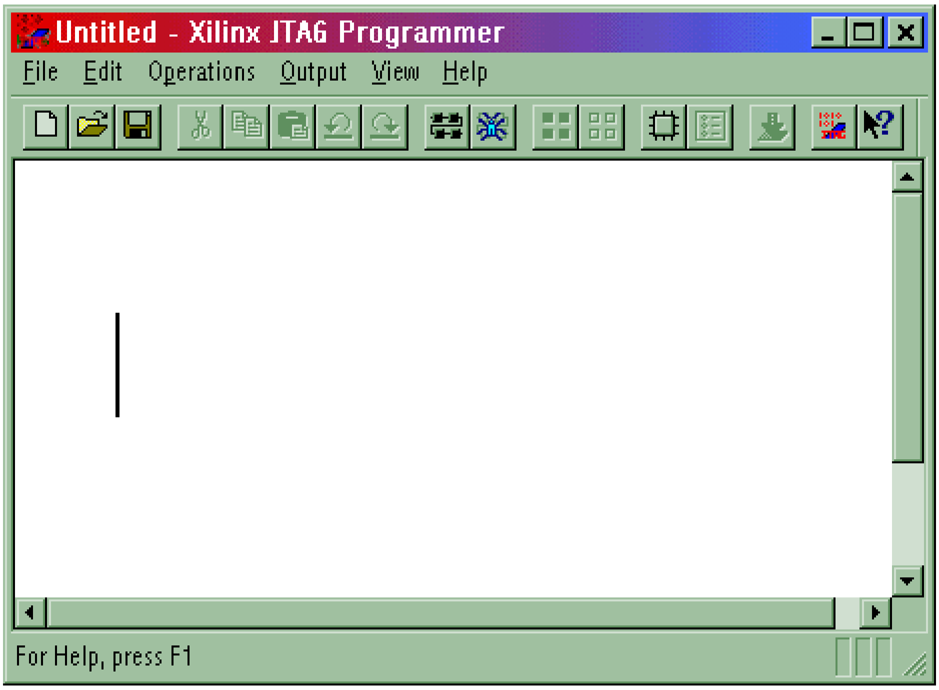
ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	JTAG Programmer Software (Please Download from www.xilinx.com)
Version Upgrade Data	cdf File (Include in VSI**** file)
Personal Computer	WINDOWS 95® or 98®

B. Connection

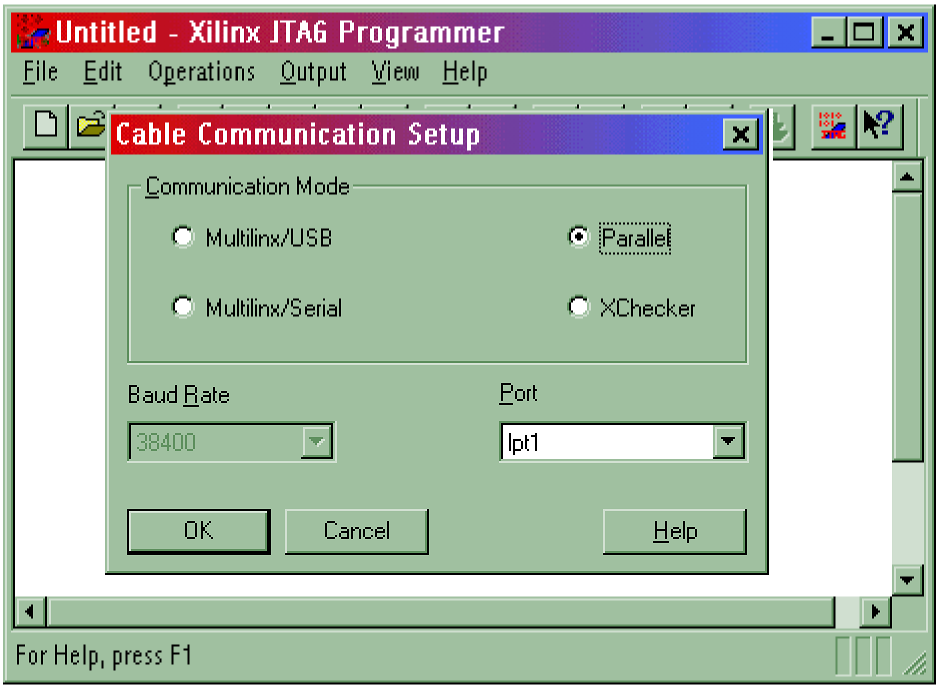
1. Connect the D-sub Cable between CN401(for XILINX) connector of the CPLD WRITER(VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P4) between connector on objective PCB and P4 connector of CPLD WRITER. (Refer to 9-3-1.Chart of PLD Writer and Figure 9-3-2.)
3. Turn on AJ-D455P and Personal Computer (Windows mode).

C. Boot up the Ver. Up Software and Ver. up Procedure

1. After download the program, **"Xilinx CPLD Webpack"** folder is created on windows. Click the start button of windows program **"Xilinx CPLD Webpack"**, then Device Program is boot up and following screen apperaes.



2. Click **“OUTPUT”** on the menu bar and select **“Parralle”** for **“Cable Communication Setup”** (default port is **“lpt1”**).



Cable Communication Setup

Communication Mode

○ Multilinx/USB ● Parallel

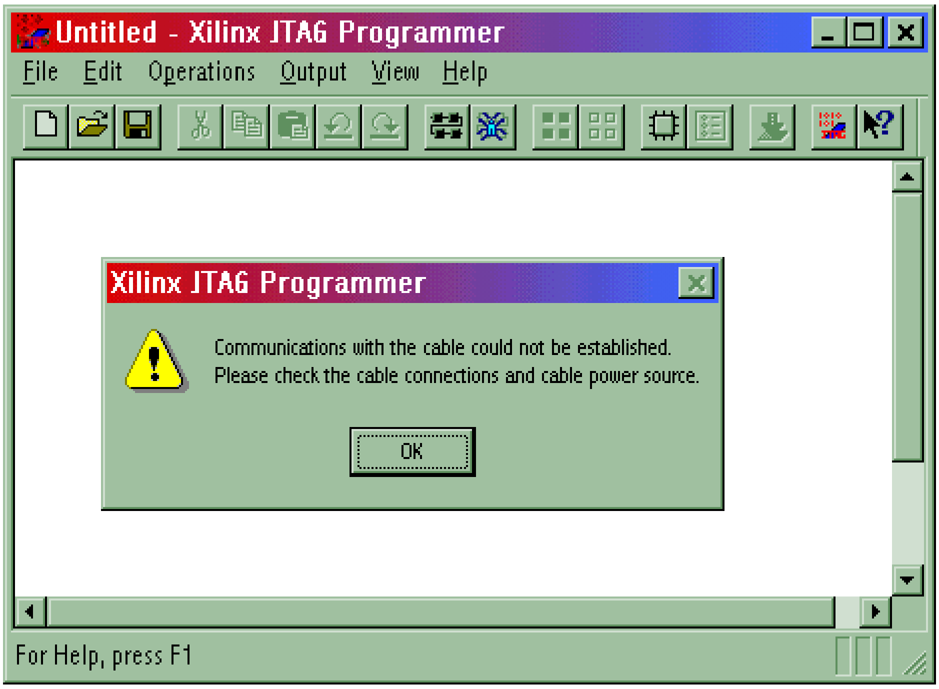
○ Multilinx/Serial ○ XChecker

Baud Rate: 38400

Port: lpt1

Untitled - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
OK
Cancel
Help
For Help, press F1

3. If connection is correct, following message appears.

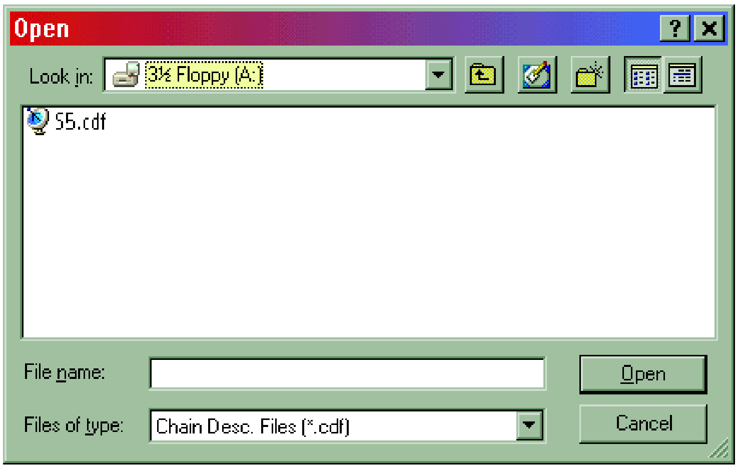


Xilinx JTAG Programmer

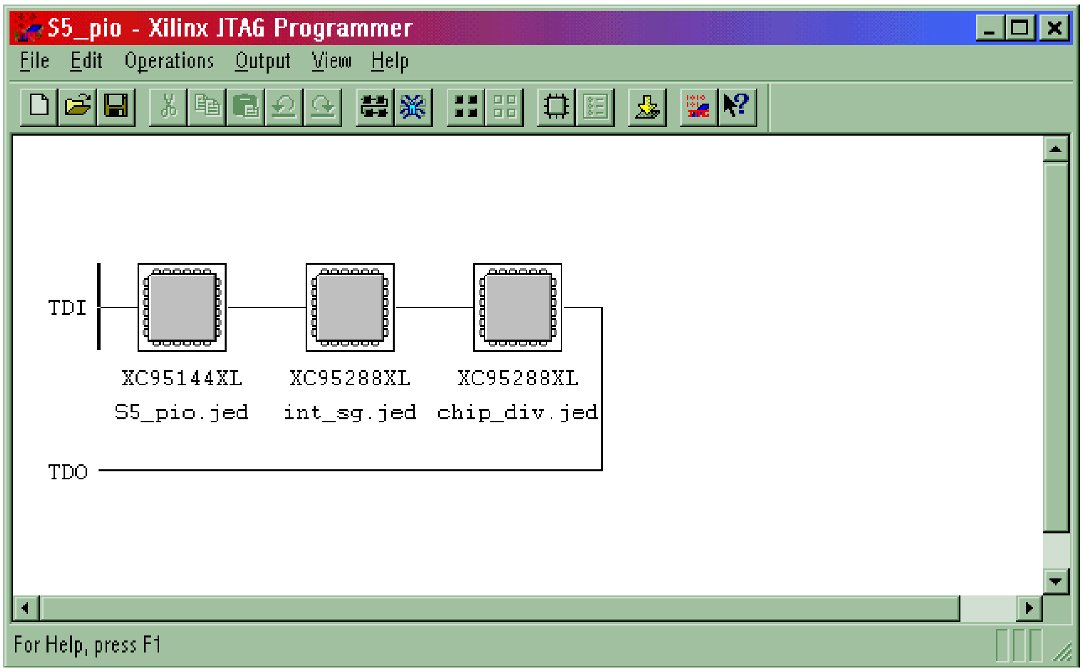
Communications with the cable could not be established.
Please check the cable connections and cable power source.

Untitled - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
OK
For Help, press F1

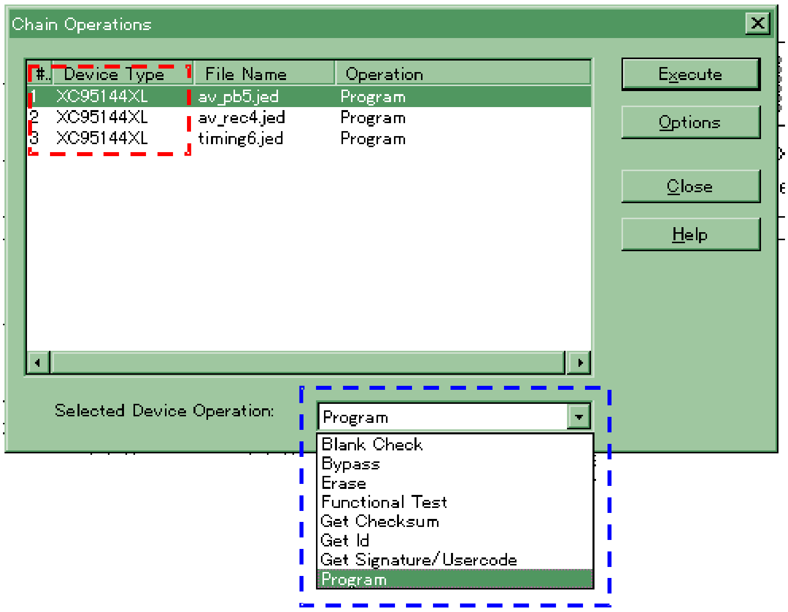
4. Click **“OK”** button.
5. Insert the floppy disk for version up data into A drive.
6. Open the target file. This file called Disk file, because one file can write serveral CPLDs like a chain.


Open
Look in:
3½ Floppy (A:)
S5.cdf
File name:
Files of type:
Chain Desc. Files (*.cdf)
Open
Cancel

7. Click **"Open"** button, then following screen appears.


S5_pio - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
TDI
XC95144XL
S5_pio.jed
XC95288XL
int_sg.jed
XC95288XL
chip_div.jed
TDO
For Help, press F1

8. Then click **"Operations"** on menu bar and select **"Chain Operation"**. Then following screen appears.
9. Select the divice from the **"Device Type"** column on the Chain Operation Window.
   Click the **"Selected Device Operation"** and select **"Program"**.
   Perform this procedure to all devices.

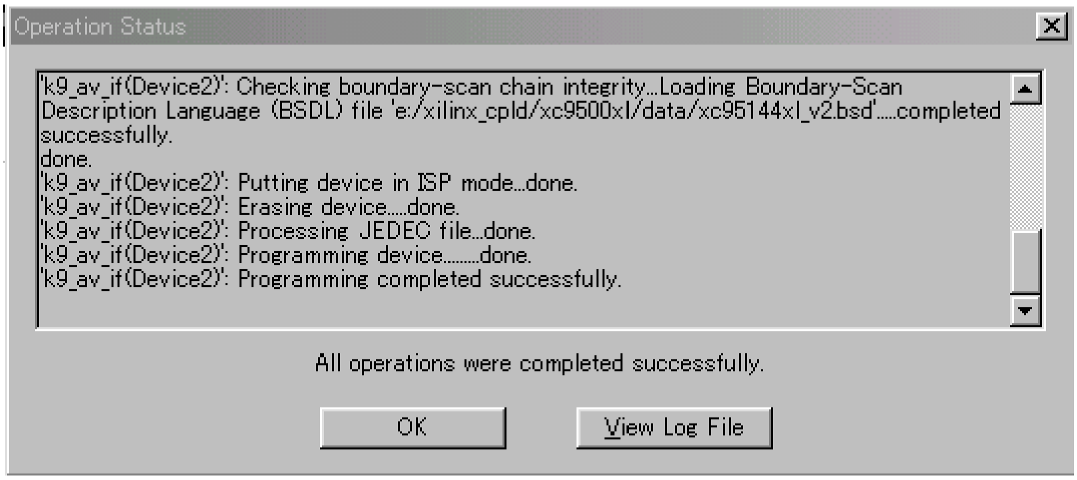

Chain Operations
Execute
Options
Close
Help

#	Device Type	File Name	Operation
1	XC95144XL	av_pb5.jed	Program
2	XC95144XL	av_rec4.jed	Program
3	XC95144XL	timing6.jed	Program

Selected Device Operation: Program

Blank Check
Bypass
Erase
Functional Test
Get Checksum
Get Id
Get Signature/Usercode
Program

10. Click **“Execute”** button.
11. When the following screen with the message of **“All operation were completed successfully.”** appears, data writing is completd.



```
'k9_av_if(Device2)': Checking boundary-scan chain integrity...Loading Boundary-Scan
Description Language (BSDL) file 'e:/xilinx_cpld/xc9500xl/data/xc95144xl_v2.bsd'.....completed
successfully.
done.
'k9_av_if(Device2)': Putting device in ISP mode...done.
'k9_av_if(Device2)': Erasing device.....done.
'k9_av_if(Device2)': Processing JEDEC file...done.
'k9_av_if(Device2)': Programming device.........done.
'k9_av_if(Device2)': Programming completed successfully.
```

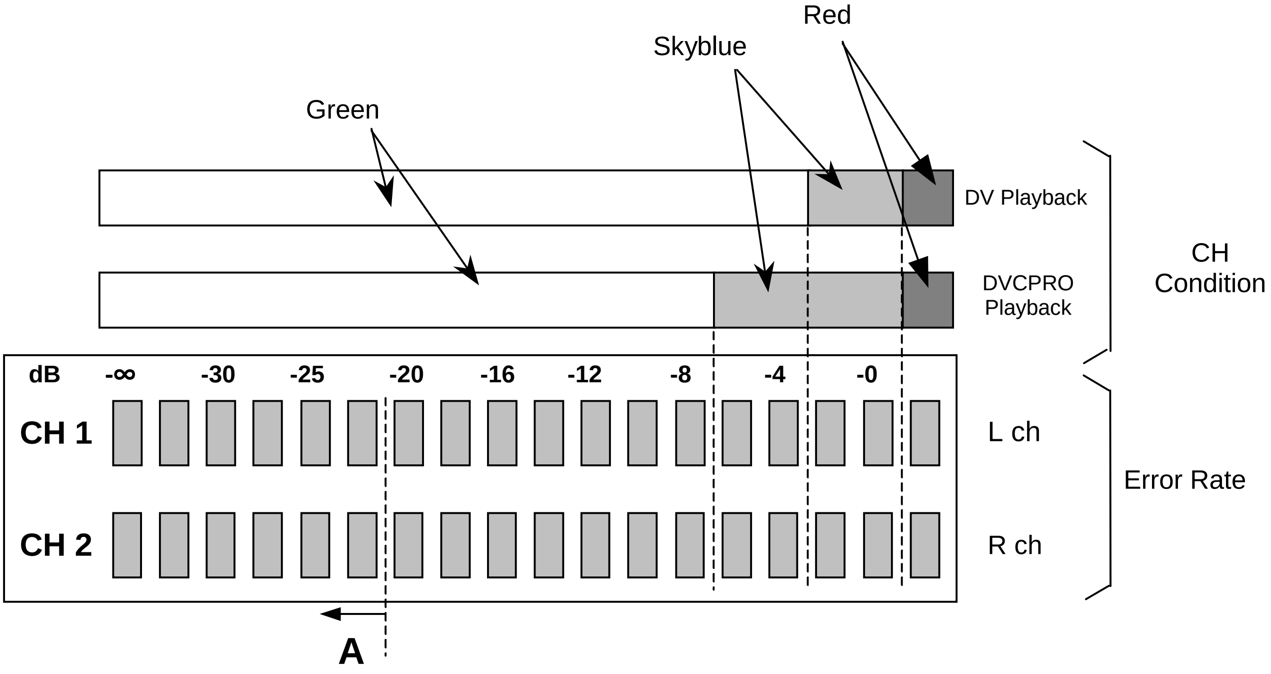
All operations were completed successfully.

10. Error Rate Display and Confirmation Method

The error rate is displayed on the AUDIO LEVEL METER in Service mode. (When enters in Service menu mode, the AUDIO LEVEL METER changes into the error display mode automatically.)

The error rate of the head selected for the setting of **“B00: RF ADJUST”** in the service menu.
While the **DVCPRO** is played back, the selection is possible when **“C45 PB HEAD”** is selected.
While the **DV** is played back, the selection is possible when **“D45 PB HEAD”** is selected.

Whenever the **“DIAG”** button is pressed, switching between **“AUDIO” and “VIDEO”** is possible.
While the **CH1** is lit up, **“AUDIO”** is displayed.
While the **CH2** is lit up, **“VIDEO”** is displayed.


Red
Skyblue
Green
DV Playback
DVCPRO Playback
CH Condition
dB
-∞
-30
-25
-20
-16
-12
-8
-4
-0
CH 1
CH 2
L ch
R ch
Error Rate
A

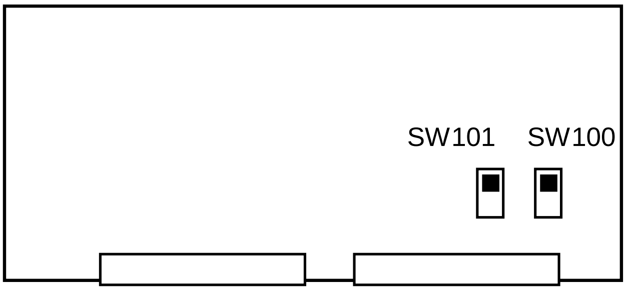
11. Internal Switch Setting Method

The switches setting on each circuit board are shown below.

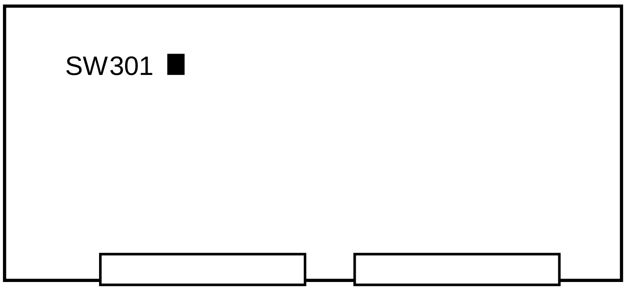
The switches **“Factory use only”** must be set to the **“factory setting”**.

BOARD	Ref. No.	SW	FACTORY SETTING	FEATURE
F1: AUDIO	SW4100	-	HIGH	Audio input inpedance setting (600Ω/ HIGH)
	SW4101	-	HIGH	Audio input inpedance setting (600Ω/ HIGH)
F6: SYSCON	SW301	1	OFF	Factory use only
		2	OFF	Factory use only

F1: AUDIO circuit board



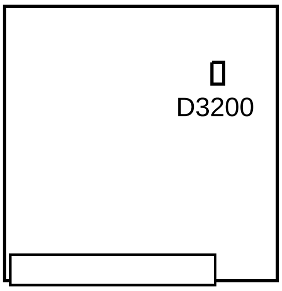
F6: SYSCON circuit board



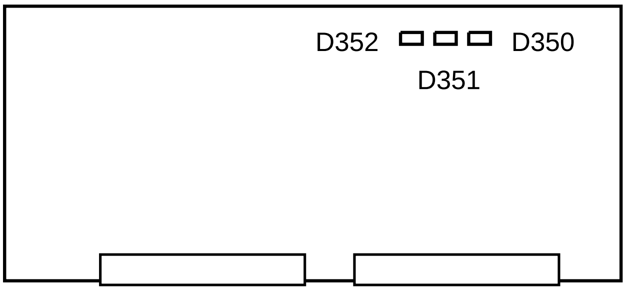
12. Internal LED Indication

BOARD	Ref. No.	FEATURE
F3A: SDI (AJ-YA455P)	D3200	For SDI input detection (light with SDI input/not light with no input)
F7: SERVO	D350	Capstan servo lock: Light with lock/not light with unlock
	D351	Cylinder servo lock: Light with lock/not light with unlock
	D352	For servo microcomputer operation confirmation (flashing with a operating)

F3A: SDI (AJ-YA455P) circuit board



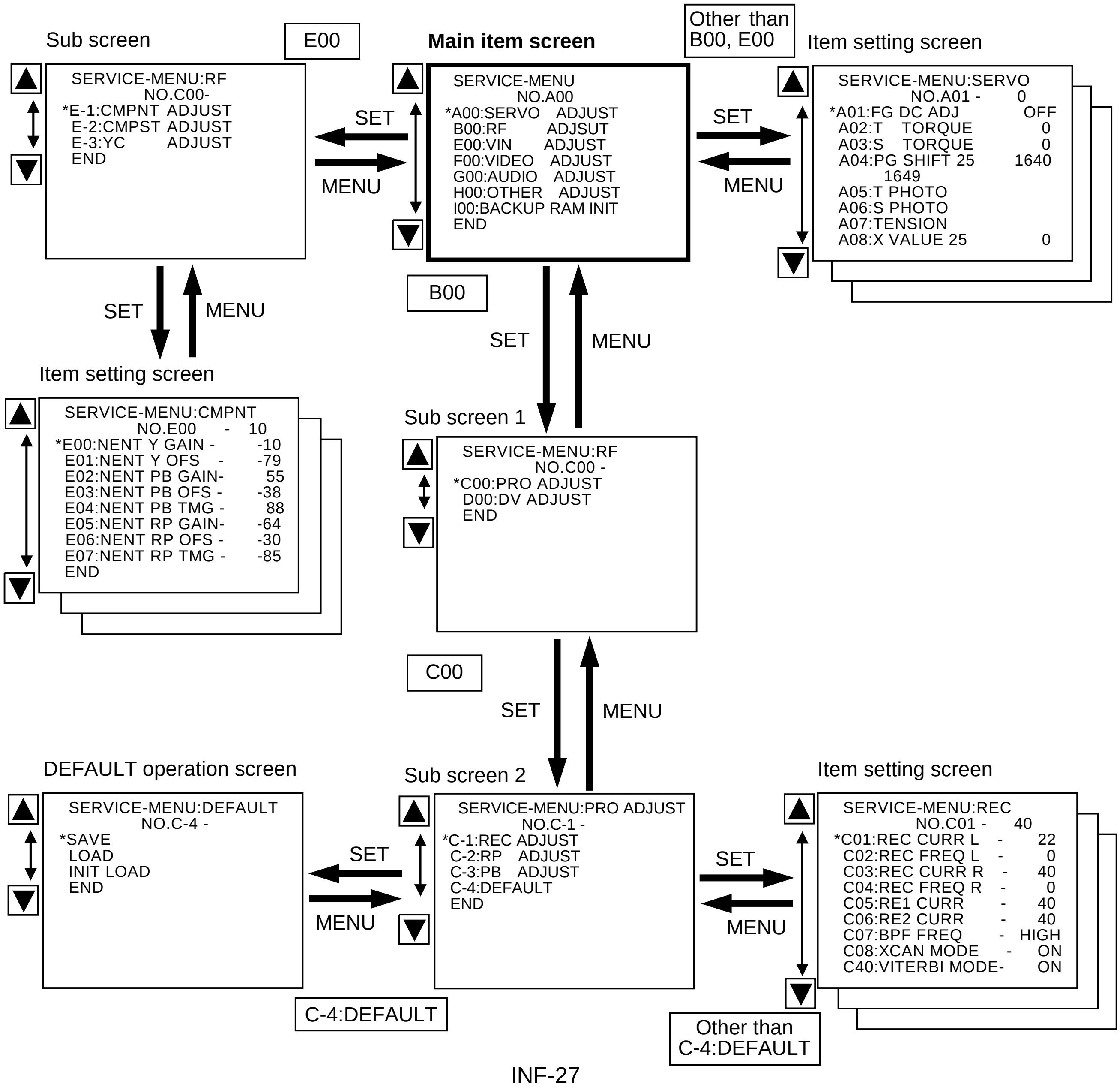
F7: SERVO circuit board



13. Service Menu

13-1. Service Menu Operation Method

1. Confirm that the **“REMOTE/LOCAL”** switch on the front panel is set to the **“LOCAL”**.
2. Press the **“MENU”** button on the front panel to display the **“SETUP-MENU”**.
3. When the **“SETUP-MENU”** is displayed, press the **“MENU”** button while pressing the **“EJECT”** button and the **“STOP”** button. Then, the **“SERVICE-MENU”** is displayed.
4. Move the cursor “*” with the “▲” **and** “▼” buttons to select any main item among items from A00 to I00.
5. If any of main items **(A00, F00, G00, H00, I00)** other than the RF adjustment **(B00)** and the V IN adjustment **(E00)** is selected, the item setting screen of the selected main item is displayed by pressing the **“SET”** button on the front panel.
6. For the RF adjustment **(B00)** and the V IN adjustment **(E00)**, select the item on the **Sub Screen**, and then, press the **“SET”** button. Then, the item setting screen of the selected item is displayed.
7. For both of the RF adjustment and the V IN adjustment, the previous screen can be displayed with the **“MENU”** button.
8. The settings can be altered on the item setting screen by moving the cursor “*” with the “▲” **and** “▼” buttons. Settings can be altered by pressing the “◀” **and** “▶” buttons. (Setting and operating procedures may be different depending on the selected item. Refer to the details of the service menu.)



```
SERVICE-MENU:RF
        NO.C00-
*E-1:CMPNT  ADJUST
 E-2:CMPST  ADJUST
 E-3:YC     ADJUST
 END
```

```
SERVICE-MENU
         NO.A00
*A00:SERVO   ADJUST
 B00:RF      ADJSUT
 E00:VIN     ADJUST
 F00:VIDEO   ADJUST
 G00:AUDIO   ADJUST
 H00:OTHER   ADJUST
 I00:BACKUP RAM INIT
 END
```

```
SERVICE-MENU:SERVO
          NO.A01 -     0
*A01:FG DC ADJ        OFF
 A02:T   TORQUE         0
 A03:S   TORQUE         0
 A04:PG SHIFT 25     1640
       1649
 A05:T PHOTO
 A06:S PHOTO
 A07:TENSION
 A08:X VALUE 25         0
```

```
SERVICE-MENU:CMPNT
          NO.E00   -   10
*E00:NENT Y GAIN -    -10
 E01:NENT Y OFS  -    -79
 E02:NENT PB GAIN-     55
 E03:NENT PB OFS -    -38
 E04:NENT PB TMG -     88
 E05:NENT RP GAIN-    -64
 E06:NENT RP OFS -    -30
 E07:NENT RP TMG -    -85
 END
```

```
SERVICE-MENU:RF
         NO.C00 -
*C00:PRO ADJUST
 D00:DV ADJUST
 END
```

```
SERVICE-MENU:DEFAULT
       NO.C-4 -
*SAVE
 LOAD
 INIT LOAD
 END
```

```
SERVICE-MENU:PRO ADJUST
         NO.C-1 -
*C-1:REC ADJUST
 C-2:RP   ADJUST
 C-3:PB   ADJUST
 C-4:DEFAULT
 END
```

```
SERVICE-MENU:REC
          NO.C01 -     40
*C01:REC CURR L   -    22
 C02:REC FREQ L   -     0
 C03:REC CURR R   -    40
 C04:REC FREQ R   -     0
 C05:RE1 CURR     -    40
 C06:RE2 CURR     -    40
 C07:BPF FREQ     -  HIGH
 C08:XCAN MODE    -    ON
 C40:VITERBI MODE-     ON
```

13-2. DEFAULT Operation

13-2-1. RF adjustment (B00)

In the RF adjustment, it is possible to save the set values to an area different from the back up area for the present set valng. The saved setting can be loaded as the present setting. This operation is effective only after the loading is completed.

*** Operating procedures**

1. Move the cursor **"*"** onto the **"C-4 : DEFAULT"**.
2. Press the **"SET"** button on the front panel.
3. Press the **"▲"** and **"▼"** buttons to move the cursor **"*"** onto the objective item.

   SAVE : The present setting can be saved as the backup value.

   LOAD : The saved backup value can be loaded as the current setting.
   (If the SAVE operation has not been carried out, the initial value will be loaded.)

4. Press the **"SET"** button on the front panel. Then, the selected operation is carried out, and then, the item setting screen is displayed again. When the **"MENU"** button is pressed, the item setting screen is displayed again without any operation carried out.

13-3. Service Menu Contents

A00: SERVO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
A01	FG DC ADJ	0 1 2 3 4 5	OFF OK CAP NG SRL NG TRL NG	Automatic adjustment of the DC offset of the capstan, S/T-Reel FG. This shall be done is in EJECT condition. Operation: 1. The following operation will start when the ← or → button is pressed. 1) S/T-brake OFF 2) Capstan, S/T-Reel is rotation 3) DC offset automatic adjustment will start 2. When the message “OK” appears, adjustment is completed. 3. Release the ← or → button If the following messages are displayed, the adjustment is faulty. CAP-NG Capstan FG adjustment NG SRL-NG S-Reel FG adjustment NG TRL-NG T-Reel FG adjustment NG	Yes	
A02	RL GAIN ADJ	T REEL 0 | 100 | 255 S REEL 0 | 100 | 255	 0 | 100 | 255 0 | 100 | 255	Automatic adjustment of the reel torque of the S/T-Reel. Operation: This shall be done is in EJECT condition. 1. Switch to PLAY mode. 2. Keep pressing the ← or → button. The set value indication will go out and automatic adjustment will start. 3. When the set value is displayed, adjustment is completed. Release the ← or → button.	Yes	
A03	T TORQUE	-128 | 0 | 127	-128 | 0 | 127	Compensation of the T-reel driver offset value This shall be done in EJECT condition. Operation: 1. The following operations will start when the ← or → button is pressed. 1) T-brake OFF 2) Cylinder rotation 3) Loading to the loading completion position 2. Set the value with the search dial. 3. Release the ← or → button when setting is completed. 1) Unloading to the unloading completion position 2) Cylinder stop 3) T-brake ON	Yes	
A04	S TORQUE	-128 | 0 | 127	-128 | 0 | 127	Compensation of the S-reel driver offset value This shall be done in EJECT condition. Operation: 1. The following operations will start when the ← or → button is pressed. 1) S-brake OFF 2) Cylinder rotation 3) Loading to the loading completion position 2. Set the value with the search dial. 3. Release the ← or → button when setting is completed. 1) Unloading to the unloading completion position 2) Cylinder stop 3) S-brake ON	Yes	
A05	PG SHIFT 25	RISE 0 | 1649 | 4095 FALL 0 | 1645 | 4095	 0 | 1649 | 4095 0 | 1645 | 4095	Alignment tape is used for PG mono-multi automatic adjustment. Operation: 1. Switch to PLAY mode. 2. Keep pressing the ← or → button. The set value indication will go out and automatic adjustment will start. 3. When the set value is displayed, adjustment is completed. Release the ← or → button.	Yes	

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
A06	T PHOTO		Voltage value 0.0V | 3.3V	Indication of the detection voltage of the photo sensor for beginning and end detection on the T-side This is used for adjustment of the sensitivity of the photosensor. Operation 1. Switch to EJECT mode. 2. Select the item. 3. The voltage value will be displayed. 4. Insert the cassette for sensitivity adjustment. Stop will be performed at the cassette DOWN position. 5. Adjust the sensitivity with the VR on the MECHA_IF. 6. The cassette will be ejected when the cursor is moved to an item other than A05: T PHOTO or A06: S PHOTO.	No	
A07	S PHOTO		Voltage value 0.0V | 3.3V	Indication of the detection voltage of the photo sensor for beginning and end detection on the S-side This is used for adjustment of the sensitivity of the photosensor. Operation: 1. Switch to EJECT mode. 2. Select the item. 3. The voltage value will be displayed. 4. Insert a cassette for sensitivity adjustment. The cassette will stop at the DOWN position. 5. Adjust the sensitivity with the VR on the MECHA_IF. 6. The cassette will be ejected when the cursor is moved to an item other than A05: T PHOTO or A06: S PHOTO.	No	
A08	TENSION	0 1	Non-display ON	Loading operation for tension offset adjustment Operation: 1. Switch to EJECT mode. 2. Switch the set value to ON. Loading will be performed to the loading completion position. 3. Unloading will be performed when the set value is switched to OFF or when the cursor is moved to another item.	No	
A09	X VALUE 25	-128 | 0 | 127	-128 | 0 | 127	Electrical fine adjustment of the X-value Operation: 1. Switch to PLAY mode. 2. Keep pressing the ← and → button. The set value display will go out and automatic adjustment will start. 3. Adjustment is completed when the set value is displayed. Release the ← and → button.	Yes	
A10	PB GAIN 25	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the PB head	Yes	
A11	PB LIN 25	0 1	Non-display ON	Adjustment of the LISTA linearity of the PB head	No	
A12	RP GAIN 25	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the PBR head	Yes	
A13	RP LIN 25	0 1	Non-display ON	Adjustment of the LISTA linearity of the RP head	No	
A14	RP GAIN DV	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the RP head (For DV, this can work only when a DV cassette is inserted.)	Yes	
A15	RP LIN DV	0 1	Non-display ON	Adjustment of the LISTA linearity of the RP head (For DV, this can work only when a DV cassette is inserted.)	No	
A16	TRK VAL 25	-128 | 0 | 127	-128 | 0 | 127	Set the CTL tracking offset value.	No	
A17	REC DATA SEL	0 1	NORMAL CW	Select the Rec data 0: NORMAL DATA 1: CW signal	No	

B00: RF ADJUST

RF ADJUST has a subscreen composition, and there is a hierarchical structure for each format.

RF ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
C00	PRO ADJUST	Adjustment for DVCPRO (25 Mbps)
D00	DV ADJUST	Adjustment for DV • Insert a DV cassette for adjustment.

C: RRO ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
C-1	REC ADJUST	Adjustment of the recording system for DVCPRO (25 Mbps)
C-2	RP ADJUST	Adjustment of the playback system (RP head) for DVCPRO (25 Mbps)
C-3	PB ADJUST	Adjustment of the playback system (PB head) for DVCPRO (25 Mbps)
C-4	DEFAULT	LOAD/SAVE of the factory default adjustment values/initial values LOAD operation • Perform operation in regard to the adjustment values for DVCPRO (25 Mbps). • Operation is effective only after completion of loading. Operation: 1. Move the cursor to C-4: DEFAULT. 2. Press the "▲" and "▼" button and move the cursor to the desired operation item. SAVE ... Save the present set values as the factory default values. LOAD ... Load the saved factory default values as the present set values. (When SAVE operation has not been performed, the initial values will be loaded.) INIT LOAD ... Load the initial values as the present set values. 3. When the SET button is pressed, the selected operation will be performed and it will return to the item setting screen. When the MENU button is pressed, no operation will be performed and it will return the item setting screen.

D: DV ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
D-1	REC ADJUST	Adjustment of the recording system for DVCPRO
D-2	RP ADJUST	Adjustment of the playback system (RP head) for DVCPRO
D-4	DEFAULT	LOAD/SAVE of the factory default adjustment values/initial values LOAD operation • Perform operation in regard to the adjustment values for DVCPRO. • Operation is effective only after completion of loading. Operation: 1. Move the cursor to C-4: DEFAULT. 2. Press the "▲" and "▼" button and move the cursor to the desired operation item. SAVE ... Save the present set values as the factory default values. LOAD ... Load the saved factory default values as the present set values. (When SAVE operation has not been performed, the initial values will be loaded.) INIT LOAD ... Load the initial values as the present set values. 3. When the SET button is pressed, the selected operation will be performed and it will return to the item setting screen. When the MENU button is pressed, no operation will be performed and it will return to the item setting screen.

C-1: REC ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C01 D01	REC CURR L	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RP L head recording current	Yes	
C02 D02	REC FREQ L	-128 | 0 | 127	-128 | 0 | 127	Adjustment of the RP L head recording f characteristic	Yes	
C03 D03	REC CURR R	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RP R head recording current	Yes	
C04 D04	REC FREQ R	-128 | 0 | 127	-128 | 0 | 127	Adjustment of the RP R head recording f characteristic	Yes	
C05 D05	RE1 CURR	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RE1 head erase current	Yes	
C06 D06	RE2 CURR	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RE2 head erase current	Yes	
C07 D07	BPF FREQ	0 1	HIGH LOW	BPF band setting for recording adjustment • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C08 D08	XCAN MODE	0 1	OFF ON	Crosstalk canceler ON/OFF setting • The setting is held until exit from RRO ADJUST, DV ADJUST.	No	

C-2: RP ADJUST / C-3: PB ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C01 D01	RF PHS L	-128 | 20 | 127	-128 | 20 | 127	Adjustment of the Lch head playback phase	Yes	
C02 D02	RF PHS R	-128 | 20 | 127	-128 | 20 | 127	Adjustment of the Rch head playback phase	Yes	
C03 D03	RF MAG L	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Lch head playback amplitude	Yes	
C04 D04	RF MAG R	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Rch head playback amplitude	Yes	

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C05 D05	ENV L	0 | 255	0 | 255	Playback signal envelope level read-out value averaged for each track of each head ENV L: Lch head ENV R: Rch head Averaging is performed at 8 points in the track, and the newest track value for which averaging has been completed at the time when read-out is started will be read out. • Read-out is possible only at the time of PLAY and REC. • The value is held until exit from PRO ADJUST, DV ADJUST. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	No	
C06 D06	ENV R	0 | 255	0 | 255		No	
C07 D07	AEQ SPD	0 1 2 3	0 1 2 3	The control response speed for the adaptive equalization filter is set in four levels. The sensitivity is highest with 0 and lowest with 3.	Yes	
C08 D08	HLD SEN	0 1 2 3	0 1 2 3	The detection sensitivity for detection of changes in the relative speed is set in four levels. The sensitivity is highest with 0 and lowest with 3.	Yes	
C09 D09	FLT SEN	0 1 2 3	0 1 2 3	The detection sensitivity for the fault detection function is set in four levels. A fault status is detected when a status where a normal signal can not be detected consecutively for 5 tracks over the following track values. 0: 1/2 1: 3/4 2: 7/8 3: 15/16	Yes	
C10 D10	PLLREV	0 1	SLOW FAST	The compensation speed in PLL frequency compensation mode is set in two levels	Yes	
C11 D11	PLLPHS	0 | 7 | 31	0 | 7 | 31	In the PLL response speed setting, mainly the phase pull-in speed is controlled. The response speed becomes faster with larger values.	Yes	
C12 D12	REV LEV	0 1 2 3	0 1 2 3	The strength of the frequency pull-in operation of the PLL phase comparison characteristic expansion function is controlled in four levels. The action is weakest with 0 and strongest with 3. When the data acquisition ratio at the time of special playback is bad, it can be improved by controlling this parameter.	Yes	
C13 D13	PLL FRQ	C13 0 | 7 | 31 D13 0 | 1 | 31	 0 | 7 | 31 0 | 1 | 31	The setting of the PLL response speed controls mainly the frequency pull-in speed. The response becomes faster with larger values.	Yes	
C14 D14	MONI LIM	0 | 46 | 127	0 | 46 | 127	Setting of the frequency offset tolerance value for PLL frequency monitor control The actual tolerance range in regard to the reference frequency is (set value)/10.24%.	Yes	
C15 D15	TH EYE	0 | 110 | 255	0 | 110 | 255	Setting of the threshold value for judging the signal quality after equalization The judgment result for the signal quality is used for adaptive equalization, PLL, fault detection function, and other control.	Yes	

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C16 D16	TH ULK	0 | 92 | 255	0 | 92 | 255	Setting of the threshold value for judging the signal quality after equalization The judgment result for the signal quality is used for adaptive equalization, PLL, fault detection function, and other control.	Yes	
C17 D17	TH ENV	0 | 16 | 255	0 | 16 | 255	Setting of the threshold value for the envelope detection signal The envelope detection signal is used for adaptive equalization filter, PLL, and AGC hold control.	Yes	
C18 D18	AGC SPEED	0 1 2 3	0 1 2 3	Setting of the AGC response speed	Yes	
C19 D19	VCO	0 | 512 | 1023	0 | 512 | 1023	Setting of the initial value of the output voltage adjusting the VCO center frequency Adjustment is performed automatically in standby mode, but the time required for automatic adjustment can be reduced by setting this value in advance to a suitable value. The automatically adjusted value is read out and set. • Read-out is possible only at the time of EJECT, STANDBY-OFF. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C20 D20	T L 3A	-31 | 0 | 31	-31 | 0 | 31	The initial values for six of the seven tap coefficients of the adaptive equalization filter, excluding the fixed center tap, are set for the Lch head. The tap coefficient values after adaptive equalization filter convergence at the time of standard tape playback are read out and set. • Read-out is possible only at the time of PLAY, REC. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C21 D21	T L 2A	-31 | 0 | 31	-31 | 0 | 31		Yes	
C22 D22	T L 1A	-80 | -32 | -4	-80 | -32 | -4		Yes	
C23 D23	T L 1B	-80 | -32 | -4	-80 | -32 | -4		Yes	
C24 D24	T L 2B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C25 D25	T L 3B	-31 | 0 | 31	-31 | 0 | 31		Yes	

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C26 D26	T R 3A	-31 | 0 | 31	-31 | 0 | 31	The initial values for six of the seven tap coefficients of the adaptive equalization filter, excluding the fixed center tap, are set for the Rch head. The tap coefficient values after adaptive equalization filter convergence at the time of standard tape playback are read out and set. • Read-out is possible only at the time of PLAY, REC. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C27 D27	T R 2A	-31 | 0 | 31	-31 | 0 | 31		Yes	
C28 D28	T R 1A	-80 | -32 | -4	-80 | -32 | -4		Yes	
C29 D29	T R 1B	-80 | -32 | -4	-80 | -32 | -4		Yes	
C30 D30	T R 2B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C31 D31	T R 3B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C32 D32	IC READ	0 1 2	OFF SINGLE CONT	The following data are read out from the EQ100 IC. However, there are limitations according to the mode. Data which can be read-out only at the time of PLAY, REC ENV L ENV R T L 3A T L 2A T L 1A T L 1B T L 2B T L 3B T R 3A T R 2A T R 1A T R 1B T R 2B T R 3B Data which can be read-out only at the time of EJECT, STANDBY-OFF VCO 0: No read-out 1: Read-out each time the SET button is pressed. 2: Read-out is performed once every second. • The setting is held until PRO ADJUST, DV ADJUST is left.	No	

C-1: REC ADJUST / C-2: RP ADJUST / C-3: PB ADJUST COMMON ITEM

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C40 D40	VITERBI MODE	0 1	OFF ON	Setting whether Viterbi decoding is to be used for detection of playback data or not • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C41 D41	AEQ MODE	0 1	OFF ON	Setting of the adaptive function of the adaptive equalization filter • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C42 D42	ECC MODE	0 1 2	ALL ON OT OFF AL OFF	Setting of error correction control 0: Error correction for INNER and OUTER. 1: Error correction only for INNER, but not for OUTER. 2: No error correction for INNER and OUTER. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C43 D43	CONCEAL MOD	0 1	ON OFF	Setting of error revision control 0: Error revision is performed. 1: Error revision is not performed. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C44 D44	ERROR MODE	0 1	FAST SLOW	Setting of the error sampling time 0: FAST mode 1: SLOW mode • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C45 D45	PB HEAD	0 1	PB RP	• Setting of Playback head 0: PB head 1: RP head The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C46 D46	REC DATA	0 1	NORMAL CW	• Select the Rec Data 0: NOMAL Data 1: CW Signal The setting is held until exit from PRO ADJUST,DV ADJUST.	No	
C47 D47	TRACKING MOD	0 1	ATF CTL	Tracking mode setting 0: ATF tracking 1: CTL tracking • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C48 D48	TRACKING VAL	-128 | 0 | 127	-128 | 0 | 127	Offset value setting for CTL tracking • Effective only at the time of TRACKING MOD = CTL. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	

E00: VIN ADJUST

VIN ADJUST has a subscreen composition, and there is a hierarchical structure for each format.

VIN ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
E-1	CMPNT ADJUST	Adjustment to component input
E-2	CMPST ADJUST	Adjustment of composit input
E-3	YC ADJUST	Adjustment of S-VIDEO (Y/C) input

E-1: CMPNT ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	NENT Y GAIN	-128 | -10 | 127	-128 | -10 | 127	Adjustment of component Y level	Yes	
E01	NENT Y OFS	-128 | -79 | 127	-128 | -79 | 127	Adjustment of component Y offset level	Yes	
E02	NENT PB GAIN	-128 | 55 | 127	-128 | 55 | 127	Adjustment of component Pb level	Yes	
E03	NENT PB OFS	-128 | -38 | 127	-128 | -38 | 127	Adjustment of component Pb offset level	Yes	
E04	NENT PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of component Pb timing	Yes	
E05	NENT PR GAIN	-128 | 64 | 127	-128 | 64 | 127	Adjustment of component Pr level	Yes	
E06	NENT PR OFS	-128 | -30 | 127	-128 | -30 | 127	Adjustment of component Pr offset level	Yes	
E07	NENT PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of component Pr timing	Yes	

E-2: CMPST ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	SITE Y GAIN	-128 | 5 | 127	-128 | 5 | 127	Adjustment of composit Y level	Yes	
E01	SITE Y OFS	-128 | -81 | 127	-128 | -81 | 127	Adjustment of composit Y offset level	Yes	
E02	SITE PB GAIN	-128 | 18 | 127	-128 | 18 | 127	Adjustment of composit Pb level	Yes	
E03	SITE PB OFS	-128 | -38 | 127	-128 | -38 | 127	Adjustment of composit Pb offset level	Yes	
E04	SITE PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of composit Pb timing	Yes	
E05	SITE PR GAIN	-128 | 75 | 127	-128 | 75 | 127	Adjustment of composit Pr level	Yes	
E06	SITE PR OFS	-128 | -31 | 127	-128 | -31 | 127	Adjustment of composit Pr offset level	Yes	
E07	SITE PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of composit Pr timing	Yes	
E08	SITE CAXIS	-128 | -27 | 127	-128 | -27 | 127	Adjustment of composit vector phase	Yes	

E-3: Y/C ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	YC Y GAIN	-128 | -25 | 127	-128 | -25 | 127	Adjustment of the Y level for S-VIDEO (YC)	Yes	
E01	YC Y OFS	-128 | -79 | 127	-128 | -79 | 127	Adjustment of the Y offset for S-VIDEO (YC)	Yes	
E02	YC PB GAIN	-128 | -2 | 127	-128 | -2 | 127	Adjustment of the Pb level for S-VIDEO (YC)	Yes	
E03	YC PB OFS	-128 | -37 | 127	-128 | -37 | 127	Adjustment of the Pb offset level for S-VIDEO (YC)	Yes	
E04	YC PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of the Pb timing for S-VIDEO (YC)	Yes	
E05	YC PR GAIN	-128 | 45 | 127	-128 | 45 | 127	Adjustment of the Pr level for S-VIDEO (YC)	Yes	
E06	YC PR OFS	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Pr offset level for S-VIDEO (YC)	Yes	
E07	YC PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of the Pr timing for S-VIDEO (YC)	Yes	
E08	YC CAXIS	-128 | -27 | 127	-128 | -27 | 127	Adjustment of the vector phase for S-VIDEO (YC)	Yes	

F00: VIDEO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
F03	VIDEO MUTE	0 1	NORMAL MUTE	Select whether the VIDEO output is to be made gray or not 0:Normal output 1:Forced gray output	No	
F06	EE TEST MODE	0 1	NORMAL DCI RT	EE check for the entire signal processing system 0:Bus EE (EE1) 1:Full EE (EE2)	No	
F11	V SETUP	0 1	OFF ON	Switching of effective/not effective for SETUP MENU 613: SETUP 0:SETUP-MENU 613: SETUP is not displayed and THRU is sent forcibly to AV. However, the backup value does not change. (Shipping setting for T) 1:SETUP-MENU 613: SETUP is displayed and the set value is sent to AV. (Shipping setting for P, E, EG)	Yes	
F17	GAP COUNT	0 | 40 | 64	0 | 40 | 64	Setting of the GAP count for DVPRO I/F	Yes	

G00: AUDIO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
G01	REF_LEVEL1	0 1 2	FS-20 FS-18 FS-12	Selection of the audio I/O reference level 0: Full scale -20 dB 1: Full scale -18 dB 2: Full scale -12 dB • Change of the set value is possible only when G02: REF_LEVEL2 = 0 dB has been set.	Yes	
G02	REF_LEVEL2	0 1	0dB -3dB	Selection of the SETUP MENU set value for switching of the audio I/O reference level. 700:CH1 IN LV 703:CH1 OUT LV 701:CH2 IN LV 704:CH2 OUT LV 0: 4 dB/0 dB/-20dB/-60dB switching is possible. 1: Fixed to -3 dB • Set value change is possible only when G01:REF LEVEL 1 = FS-18 has been set.	Yes	
G03	REF LV INI	0 1	0dB 4dB	Setting of the factory default value of the SETUP MENU for audio I/O reference level switching. 700:CH1 IN LV 703:CH1 OUT LV 701:CH2 IN LV 704:CH2 OUT LV 0: 0 dB (Shipping setting for oversea) 1: 4 dB (Shipping setting for JAPAN)	Yes	
G08	AUD PB MODEI	0 1	MODE1 MODE2	Setting of audio playback mode 0: NOMAL Mode 1: Setting is carried out when directly editing the jointed tape on which recording was performed with a cam coder or playing back the edited tape.	Yes	
G09	LINE OUT CUE	0 1	OFF ON	Setting whether “CH1/CH2 OUTPUT terminal” can be selected is forcibly as the CUE output signal.	Yes	

H00: OTHER ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
H01	STILL LIMIT	0 1	2 min 6 min	Set the maximum value of the "SETUP-MENU 400 : STILL TIMER". Decide whether the still timer should be reset when the STANDBY-ON command is received during the STOP mode. 0:2 min/The still timer should not be reset 1:6 min/The still timer should be reset	Yes	
H02	LTC OUT SEL	0 1	N-STOP STOP	Selection of TC output according to the mode or not 0: Output always, independent of the mode 1: ON/OFF switching of the TC output according to the VTR mode. However, the TC output always is ON at the time of SETUP MENU 317: AUD MEM MODE = AMU_X, AMU_VO.	Yes	
H03	SYSTEM TYPE	0 1	TYPE 1 TYPE 2	Selection whether 2.3x speed is added to SHTL mode or not 0: No 2.3 speed 1: 2.3 speed exists	Yes	

H02: TC output by the mode at the time of LTC OUT SEL = STOP setting

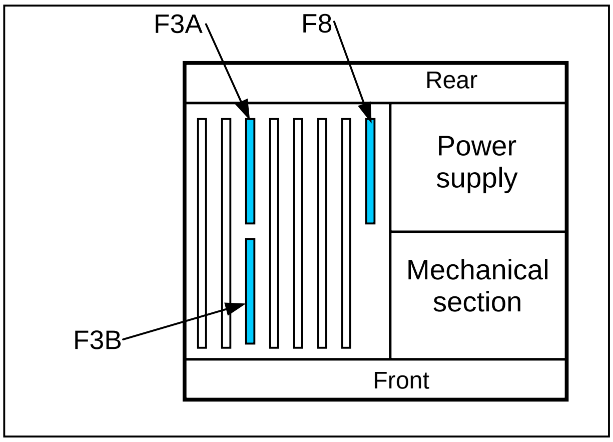
TC INT/EXT	Mode	VV / EE	TC output
INT	EJECT STOP STANDBY OFF JOG/VAR/SHTL STILL	— OFF	
	Others —		ON
EXT	EJECT STOP STANDBY OFF JOG/VAR/SHTL STILL	VV (including BLACK, GLAY of EJECT)	OFF
		EE O	N
	Others	—	ON

13-4. SET-UP Menu Initialization

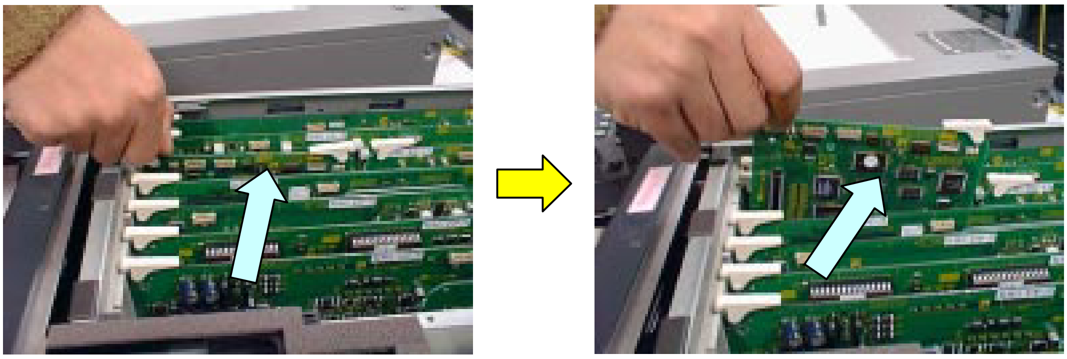
1. In the EJECT mode, press the “MENU” button to open the SETUP menu.
2. Keep and press the “EJECT” button, and press the “RESET” button mor than 2 seconds.
3. Close the menu automaticaly, then the SET-UP menu information (SYSTEM, USER1-5) is initialized.

14. Notes on Removal of PCB F3A, F3B, F8

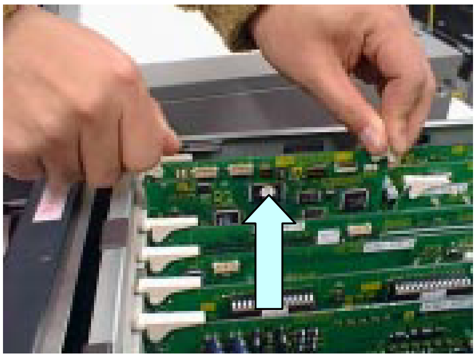
In AJ-D455P, the H-PCBs (half-size PCBs) are inserted in the F-PCB (full-size PCB) slots. Pulling of the three PCBs, F3A (SDI option), F3B (DIF option), and F8 (RF), with only one hand may cause bend on the pin of the PCB connector. When removing them, be sure to pull them straight upward with your both hands.


F3A
F8
Rear
Power supply
Mechanical section
F3B
Front

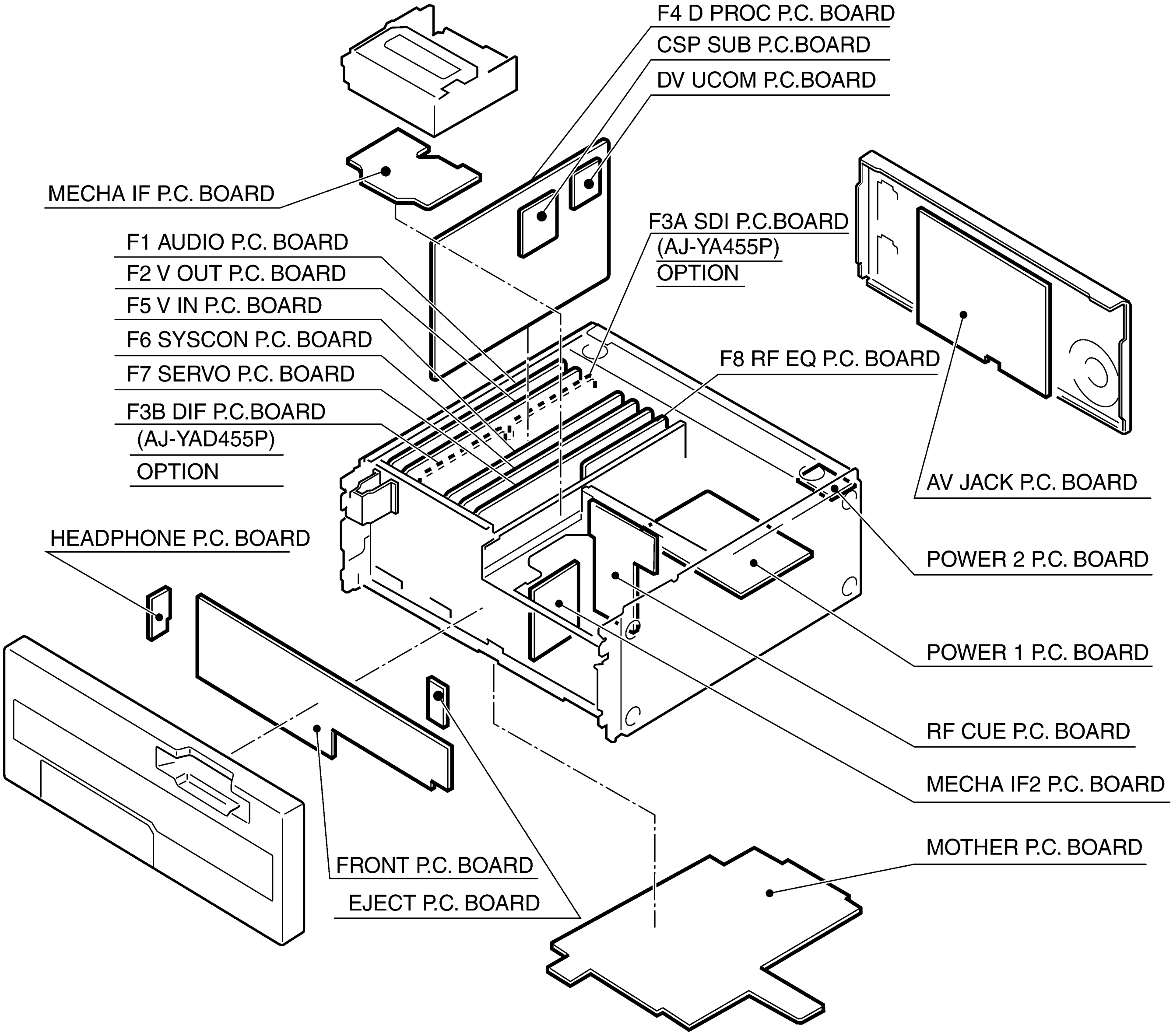
Bad removal (Pulling up PCB slantingly with only one hand)



Good removal (Pulling up PCB straight with both hands)



15. Circuit board layout drawing


F4 D PROC P.C. BOARD
CSP SUB P.C.BOARD
DV UCOM P.C.BOARD
MECHA IF P.C. BOARD
F3A SDI P.C.BOARD
(AJ-YA455P)
OPTION
F1 AUDIO P.C. BOARD
F2 V OUT P.C. BOARD
F5 V IN P.C. BOARD
F6 SYSCON P.C. BOARD
F8 RF EQ P.C. BOARD
F7 SERVO P.C. BOARD
F3B DIF P.C.BOARD
(AJ-YAD455P)
OPTION
AV JACK P.C. BOARD
HEADPHONE P.C. BOARD
POWER 2 P.C. BOARD
POWER 1 P.C. BOARD
RF CUE P.C. BOARD
MECHA IF2 P.C. BOARD
MOTHER P.C. BOARD
FRONT P.C. BOARD
EJECT P.C. BOARD

16. AJ-YAD455P Service Information

16-1. Node Unique ID (UID) number Setting Procedure

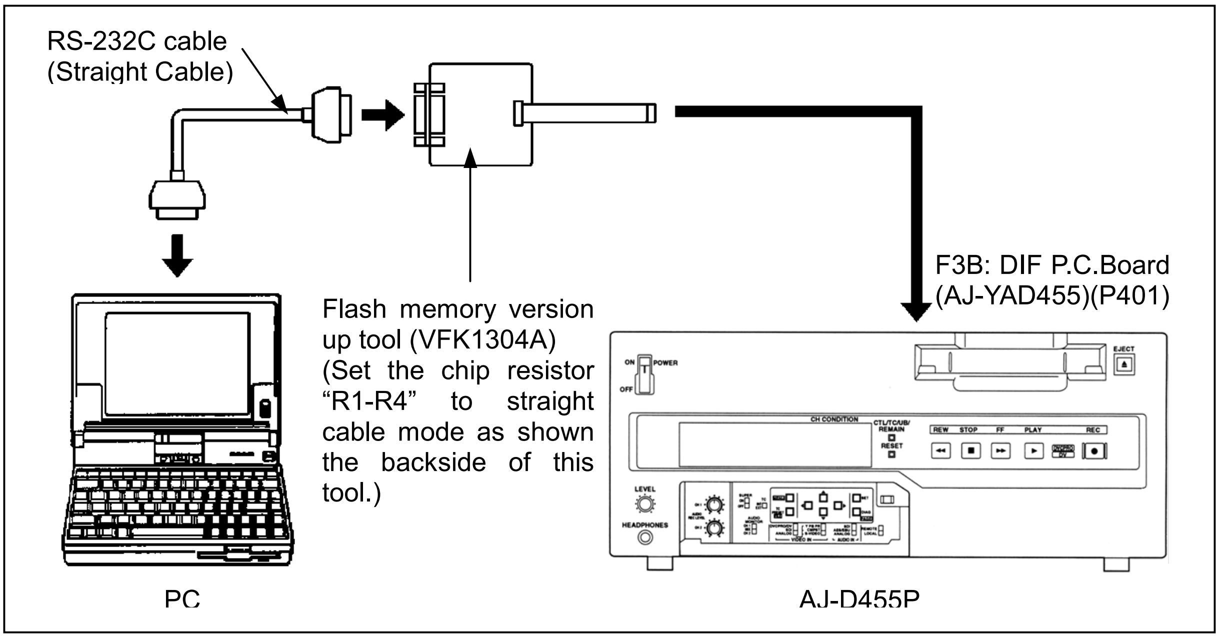
<Confirmation of UID number>

AJ-YAD455 has “Node Unique ID” for IEEE1394 I/F. This number is displayed in the DIF STATUS MENU.

1. Press the “DIAG” button, then open the Warning page.
2. Press the “4” button twice to open the DIF STATUS page.
3. The UID number is displayed on the bottom side of the menu.

<Writing UID>

1. Connect the AJ-D455P, the “Flash memory version up tool (VFK1304A)”, and the personal computer as shown below. Pay attention not to confuse the connection direction (rear, front) for the flat cable of the tool (VFK1304A). And set the VFK1304A to “STRAIGHT CABLE” mode as shown the backside of this tool.


RS-232C cable
(Straight Cable)
Flash memory version up tool (VFK1304A)
(Set the chip resistor “R1-R4” to straight cable mode as shown the backside of this tool.)
F3B: DIF P.C.Board
(AJ-YAD455)(P401)
PC
AJ-D455P

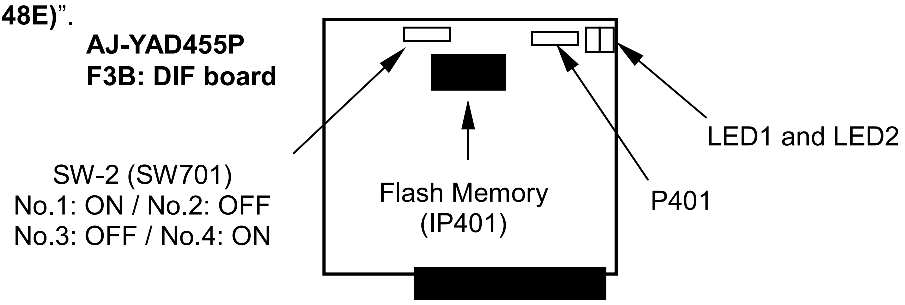
2. Set the DIP-SW1 (SW301) and SW2 (SW701) as follows.
   SW1 (SW301) = No.1:ON / NO.2-8:OFF
   SW2 (SW701) = No.1:ON / No.2:OFF / No.3:OFF / No.4:ON
3. Turn the power of personal computer on.
4. Start up the Hyper Terminal of Windows 95/98 on the personal computer.
   (Programs of Windows → Accessories → Hyper Terminal → Hypertrm)
   Name the Hyper Terminal "1394", and select an icon.
   Select the connection method. (Connecting using: Direct to COM*)
   Perform settings of the Port. (Bits per second: 9600, Data bits: 8, Parity: None, Stop bits: 1, Flow control: None)
   File → Properties → Settings → ASCII Setup → put a mark on the "Append line feeds to incoming line ends" of ASCII Receiving.
5. Turn the power of AJ-D455P on.
6. The initial screen of Debug Monitor appears on the Hyper Terminal screen.

```
********************************************************************************
*                         -- Debug Monitor --                                  *
*   Copyright(C) 1997-1998, Matsushita Electric Industrial Co., Ltd.           *
*                          All right reserved                                  *
********************************************************************************
```

7. Press the Enter key, and confirm that "MON >>" appears.
8. Input the UID command "MON >>uid ********", which is the 8 digits of the second half of the UID. (The 8 digits of the first half is always 00804582.)
9. Confirm that "&OK" and "MON >>" appear.
10. Close the software "Hyper Terminal". Turn the power of AJ-D455P off.
11. Set the SW1and 2 to original position.

16-2. Version Upgrade for Flash Memory

The AJ-YAD455P (F3B: DIF board) has flash memory. For the software version up, connect the “**Flash memory version up tool (VFK1304A)**” to the tool connection connector and use the “**Flash memory version up software (VFK1248E)**”.


AJ-YAD455P
F3B: DIF board
SW-2 (SW701)
No.1: ON / No.2: OFF
No.3: OFF / No.4: ON
Flash Memory
(IP401)
P401
LED1 and LED2

16-2-1. Version Upgrade Preparations

1. ***Items required for flash memory writing***

   Flash memory version up software **VFK1248E**

   NOTE: Software with the old version (VFK1248A) can not be used.

   Flash memory version up tool **VFK1304A**

   Personal computer compatible with Windows 95/98

   RS-232C cable (9pin-9pin Straight -cable)

2. ***Installation of the flash memory version up software***

   Copy the following file to arbitrary directory on a personal computer compatible with Windows 95/98.
   (After execution of the software, an “.INI” file will be created in the same directory as the program file, but this may be left or may be deleted as desired.)

   Program file.......................... **VSI2312E.EXE**

3. ***Setting of the flash memory version up tool***

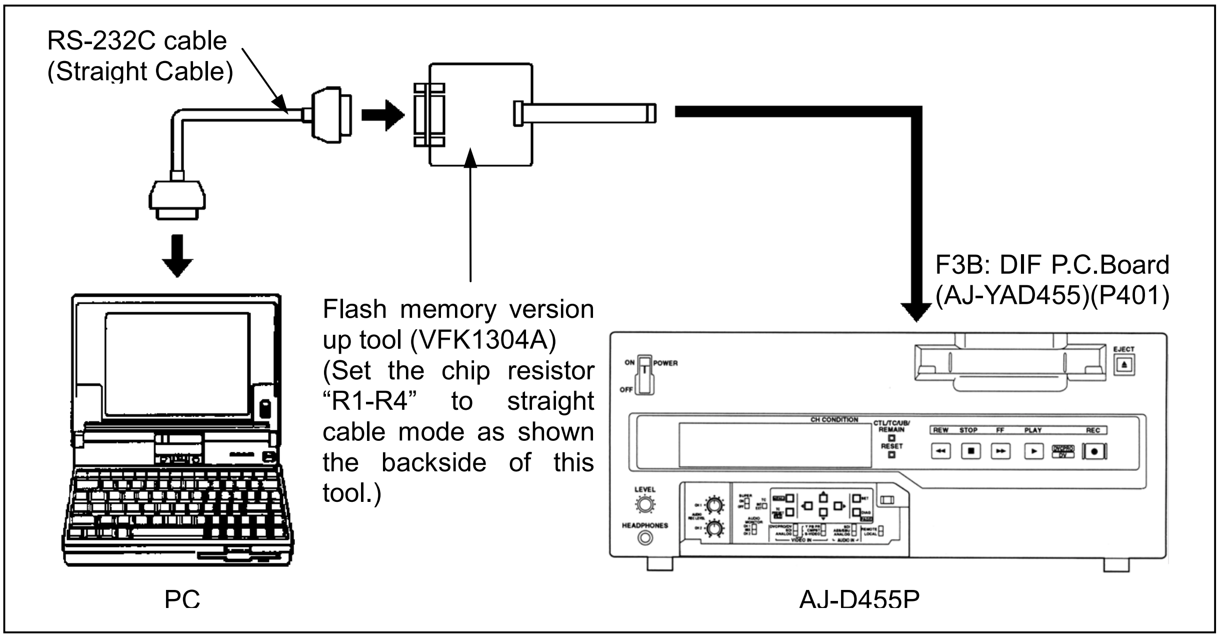
   Set the VFK1304A to “STRAIGHT CABLE” mode as shown the backside of this tool.

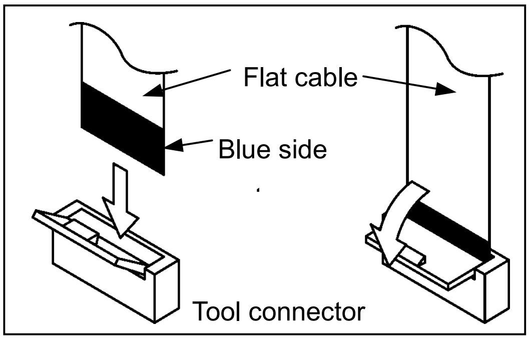
   Confirm the switch settings of the “flash memory version up tool (VFK1304A)”.

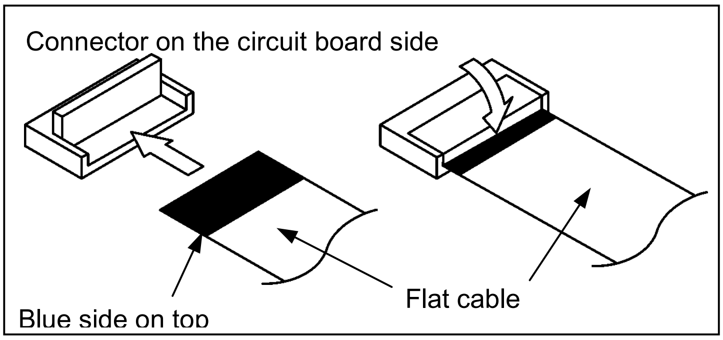
   SW1-1: ON **SW1-3: OFF**
   SW1-2: ON **SW1-4: OFF**

4. ***Connection of the flash memory version up tool***

   Turn off the power of the AJ-D455P and the personal computer and then connect them as shown in the following figure. Pay attention not to confuse the connection direction (top, bottom) for the flat cable of the flash memory version up tool (VFK1304A).

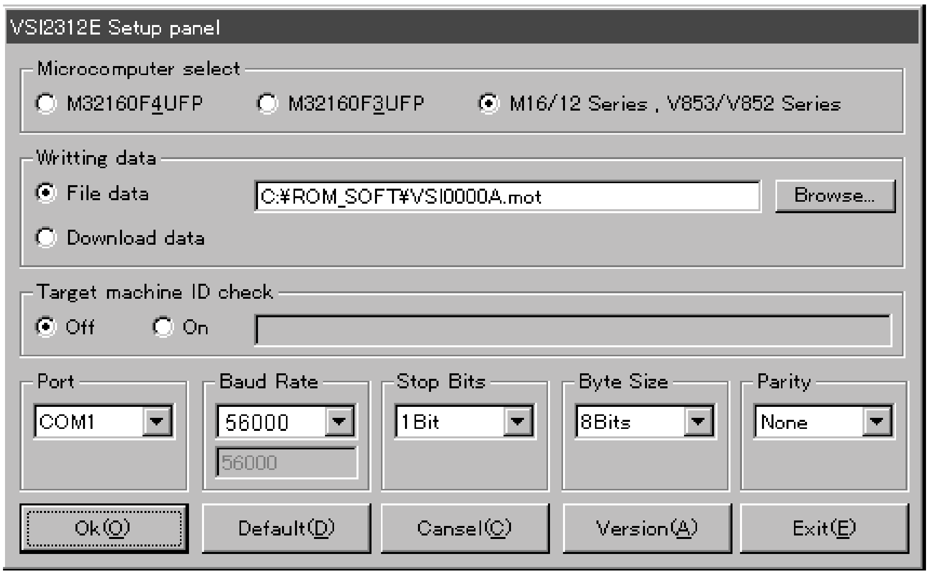

RS-232C cable
(Straight Cable)
Flash memory version up tool (VFK1304A)
(Set the chip resistor “R1-R4” to straight cable mode as shown the backside of this tool.)
F3B: DIF P.C.Board
(AJ-YAD455)(P401)
PC
AJ-D455P


Flat cable
Blue side
Tool connector


Connector on the circuit board side
Blue side on top
Flat cable

16-2-2. Version Upgrade Procedure

1. Boot up the personal computer in the condition which “**16-2-1. Version Upgrade Preparations**” is completed.
2. Turn on the power of the AJ-D455P. Confirm that the LED1 and LED2 on the DIF board should be OFF.
3. Start the flash memory version up software.
   (Double-click the program file “**VSI2312E.EXE**”, which had been copied to arbitrary directory, or create a shortcut to “**VSI2312E.EXE**” and double-click the shortcut.)
4. When this program is started, the “Setup Panel” will open as shown below.



VSI2312E Setup panel

Microcomputer select
○ M32160F4UFP ○ M32160F3UFP ● M16/12 Series , V853/V852 Series

Writting data
● File data C:¥ROM_SOFT¥VSI0000A.mot
○ Download data

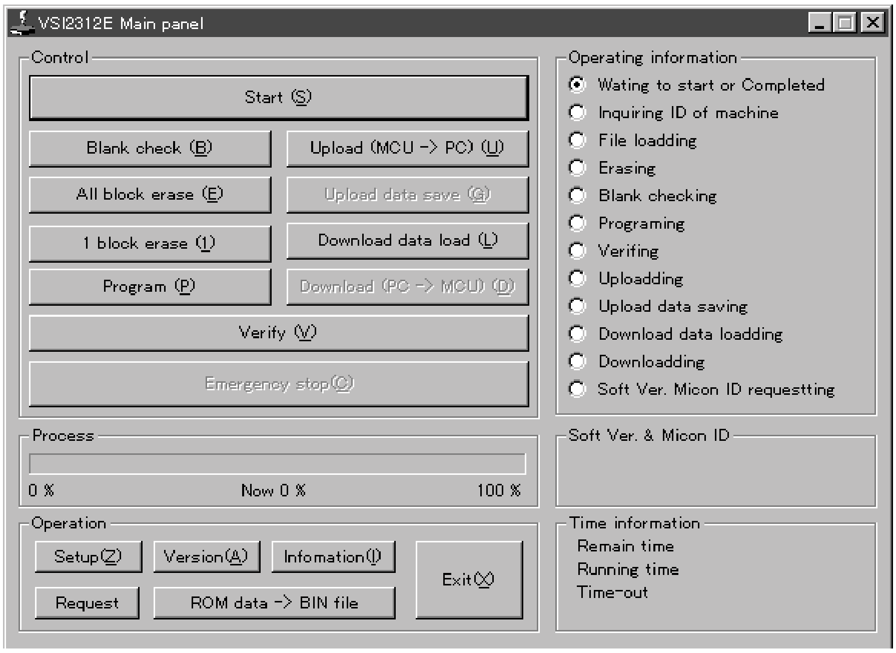
Target machine ID check
● Off ○ On

Port: COM1
Baud Rate: 56000 (56000)
Stop Bits: 1Bit
Byte Size: 8Bits
Parity: None

Browse...
Ok(O)
Default(D)
Cansel(C)
Version(A)
Exit(E)

5. Perform the following settings on the “**Setup Panel**”.
   - Microcomputer select........................... **M16/12 Series. V853/852 Series**
   - Writing data.. **File data**
     Enter the new software (XXXX.mot) for the version upgrade with the full path. You can also use the “Browse...” button on the “Setup Panel” to select the file name and the location of the new software.
   - Target machine ID check .... **OFF**
   - Port... Set the port which the RS-232C cable of the personal computer is connected to.
   - Baud Rate **56000**
   - Stop Bits.. **1Bit**
   - Byte Size.. **8Bits**
   - Parity.. **None**

6. When the settings on the “**Setup Panel**” is completed, click “**Ok(O)**”. The “**Main Panel**” will be opened as shown below.

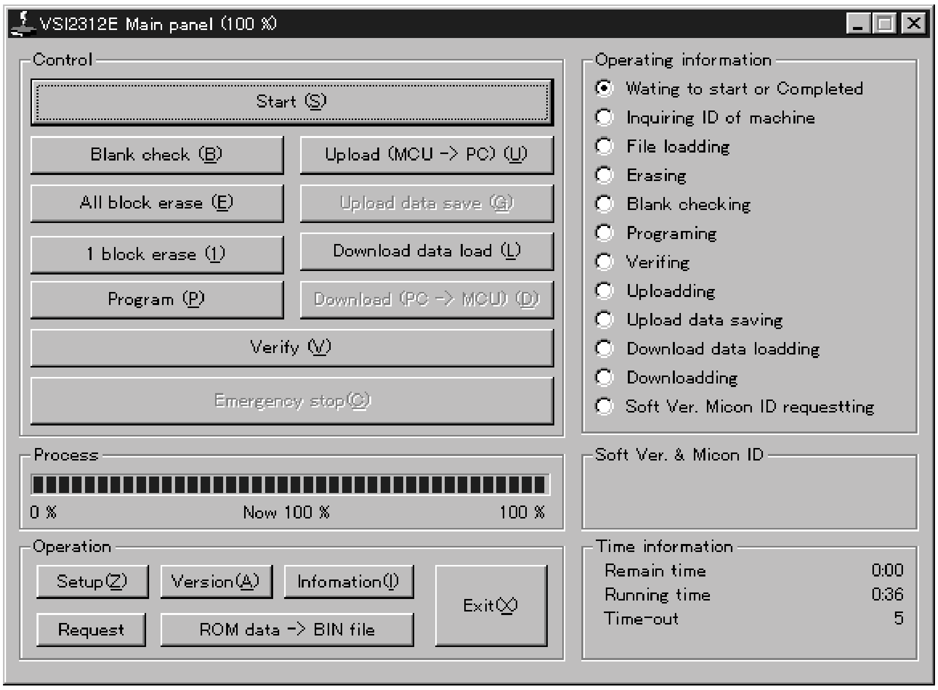

VSI2312E Main panel
Control
Start (S)
Blank check (B)
Upload (MCU -> PC) (U)
All block erase (E)
Upload data save (G)
1 block erase (1)
Download data load (L)
Program (P)
Download (PC -> MCU) (D)
Verify (V)
Emergency stop(C)
Process
Operation
Setup(Z)
Version(A)
Infomation(I)
Exit(X)
Request
ROM data -> BIN file
Operating information
Soft Ver. & Micon ID
Time information

Operating information
- ● Wating to start or Completed
- ○ Inquiring ID of machine
- ○ File loadding
- ○ Erasing
- ○ Blank checking
- ○ Programing
- ○ Verifing
- ○ Uploadding
- ○ Upload data saving
- ○ Download data loadding
- ○ Downloadding
- ○ Soft Ver. Micon ID requestting

Process: 0 % Now 0 % 100 %

Time information
Remain time
Running time
Time-out

7. Click “**Start (S)** ” on the “**Main Panel**”. (If you want to quit here, click “**Exit**”. If you want to return again to the “**Setup Panel**”, click “**Setup(Z)**”.)
8. After erasing of the flash memory, the new software will be written to the flash memory. During the processing, the progress status can be confirmed by means of the “**Process**” indicator. If the indicator should not advance for some reason, click “**Emergency stop(C)**” to stop the work, connect again, and confirm the settings.
9. When erasing and writing of the flash memory is completed, the “Process” indicator reaches 100%, and a black dot appears for “**Waiting to start or Complete**” of “**Operating information**”. (Next page)


VSI2312E Main panel (100 %)
Control
Start (S)
Blank check (B)
Upload (MCU -> PC) (U)
All block erase (E)
Upload data save (G)
1 block erase (1)
Download data load (L)
Program (P)
Download (PC -> MCU) (D)
Verify (V)
Emergency stop(C)
Process
Operation
Setup(Z)
Version(A)
Infomation(I)
Exit(X)
Request
ROM data -> BIN file
Operating information
Soft Ver. & Micon ID
Time information

Operating information
- ● Wating to start or Completed
- ○ Inquiring ID of machine
- ○ File loadding
- ○ Erasing
- ○ Blank checking
- ○ Programing
- ○ Verifing
- ○ Uploadding
- ○ Upload data saving
- ○ Download data loadding
- ○ Downloadding
- ○ Soft Ver. Micon ID requestting

Process: 0 % Now 100 % 100 %

Time information
Remain time 0:00
Running time 0:36
Time-out 5

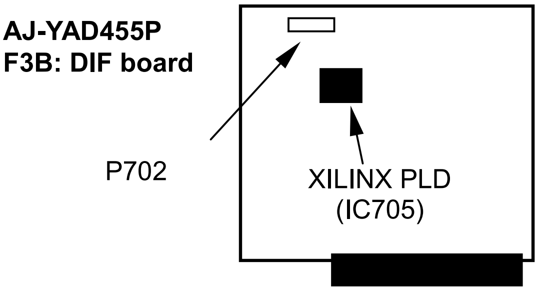
10. When the above status is reached, click “**Exit(X)** ” to end the program.
11. When the version upgrade is completed, turn off the power of the AJ-D455P and remove the version up tool.
12. Turn on the AJ-D455 power again and press the buttons “**PLAY**” and “**STOP**” at the front panel simultaneously to confirm that the version has been upgraded.

16-3. PLD Version Upgrade Procedure

The AJ-YAD455P uses **PLDs**. At the time of a version upgrade, use the special tool, connect the respective connection connectors, and use the PLD writing software.

16-3-1. PLD Chart

Circuit board name	Connector	Number of pins'	PLD No.	PLD maker	Use quantity
F3B: DIF (AJ-YAD455P)	P702	8P	XC95144XL (IC705)	XILINX	1


AJ-YAD455P
F3B: DIF board
P702
XILINX PLD
(IC705)

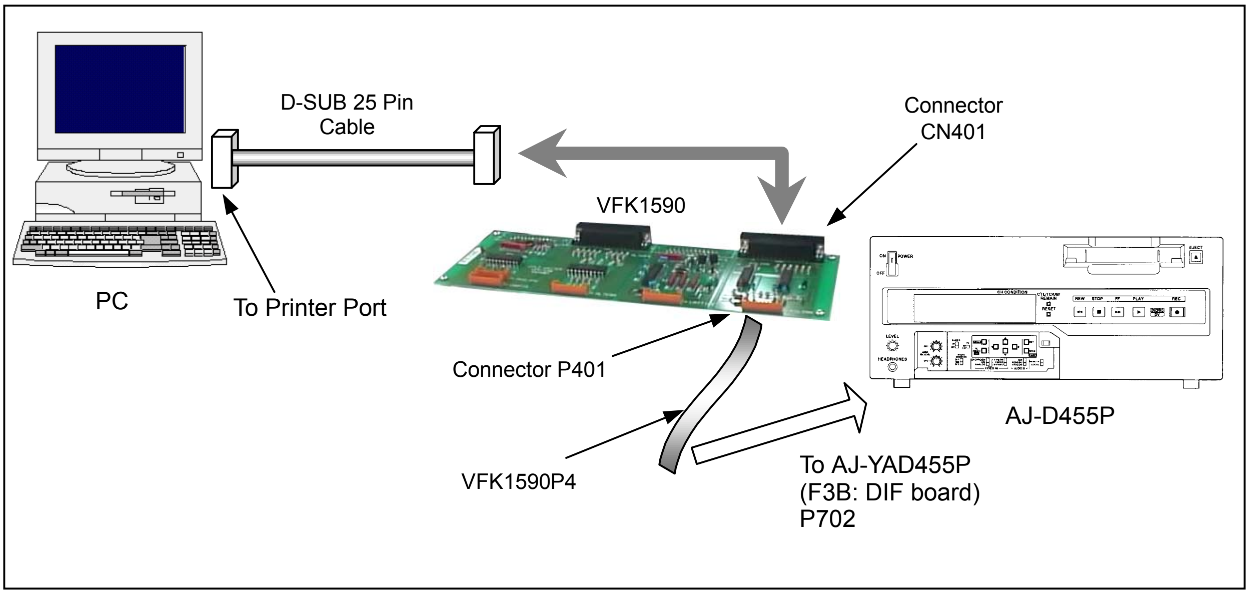
16-3-2. PLD Version up Method (XILINX)

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	JTAG Programmer Software (Please Download from www.xilinx.com)
Version Upgrade Data	cdf File (Include in VSI**** file)
Personal Computer	WINDOWS 95® or 98®

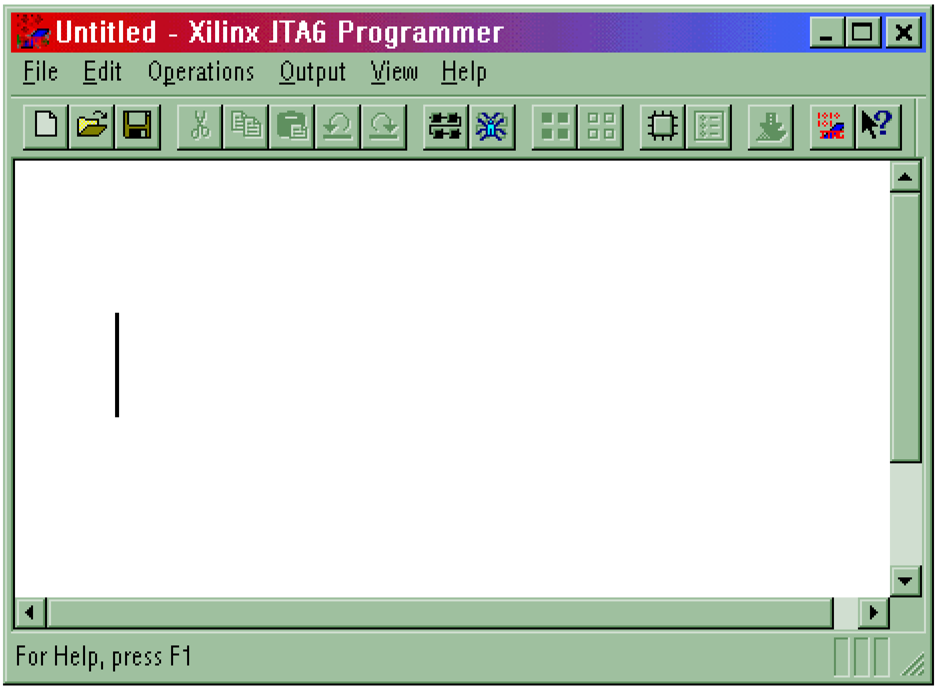
B. Connection

1. Connect the D-sub Cable between CN401 (for XILINX) connector of the CPLD WRITER(VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P4) between connector on objective PCB and P4 connector of CPLD WRITER. (Refer to 16-3-1.Chart of PLD Writer and following figure.)
3. Turn on AJ-D455P and Personal Computer (Windows mode).

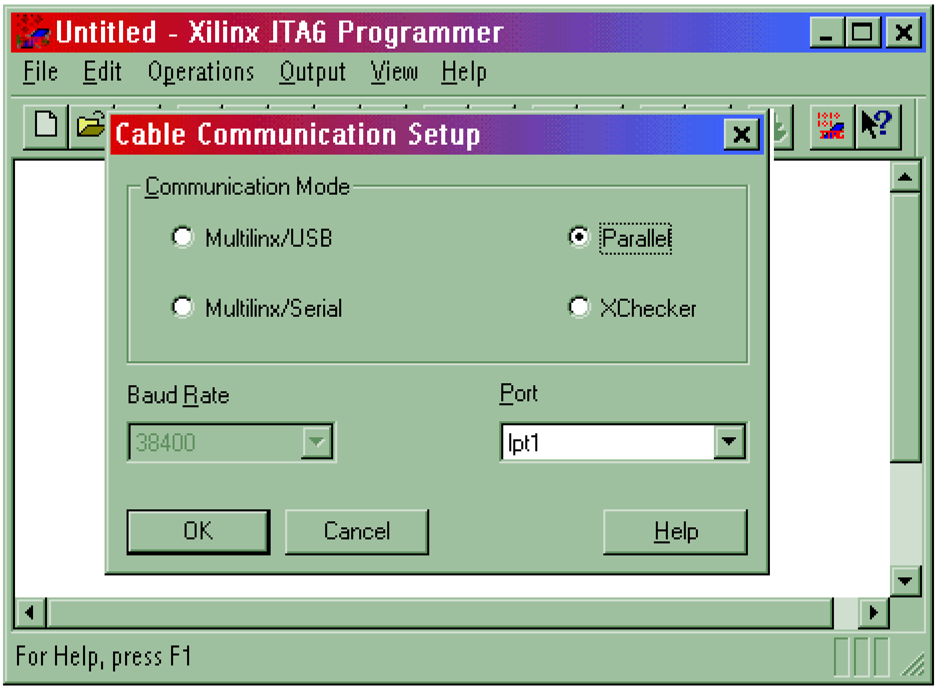

D-SUB 25 Pin Cable
Connector CN401
VFK1590
PC
To Printer Port
Connector P401
AJ-D455P
VFK1590P4
To AJ-YAD455P (F3B: DIF board) P702

C. Boot up the Ver. Up Software and Ver. up Procedure

1. After download the program, **"Xilinx CPLD Webpack"** folder is created on windows. Click the start button of windows program **"Xilinx CPLD Webpack"**, then Device Program is boot up and following screen appears.

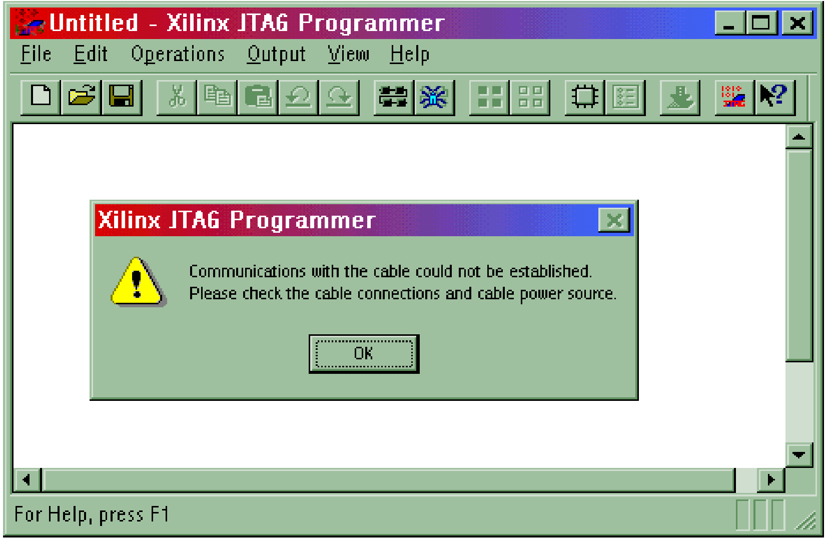

Untitled - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
For Help, press F1

2. Click **"OUTPUT"** on the menu bar and select **"Parralle"** for **"Cable Communication Setup"** (default port is **"lpt1"**).


Untitled - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
Cable Communication Setup
OK
Cancel
Help
For Help, press F1

Communication Mode
○ Multilinx/USB ● Parallel
○ Multilinx/Serial ○ XChecker
Baud Rate: 38400
Port: lpt1

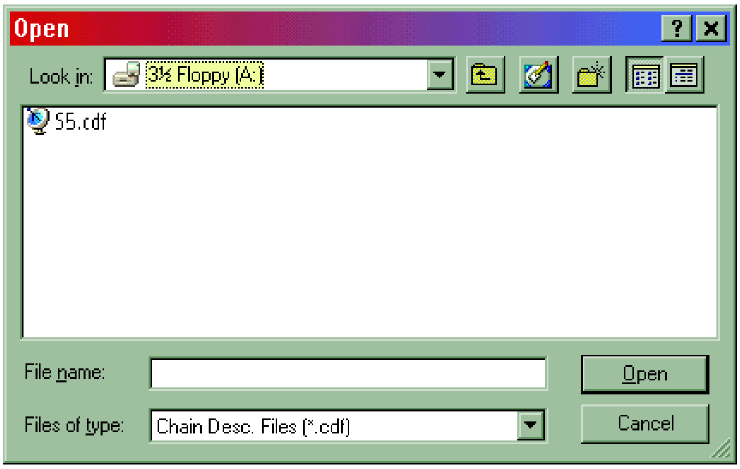
3. If connection is correct, following message appears.


Untitled - Xilinx JTAG Programmer
File Edit Operations Output View Help
Xilinx JTAG Programmer

Communications with the cable could not be established.
Please check the cable connections and cable power source.

OK
For Help, press F1

4. Click **"OK"** button.
5. Insert the floppy disk for version up data into A drive.
6. Open the target file. This file called Disk file, because one file can write serveral CPLDs like a chain.


Open

Look in: 3½ Floppy (A:)

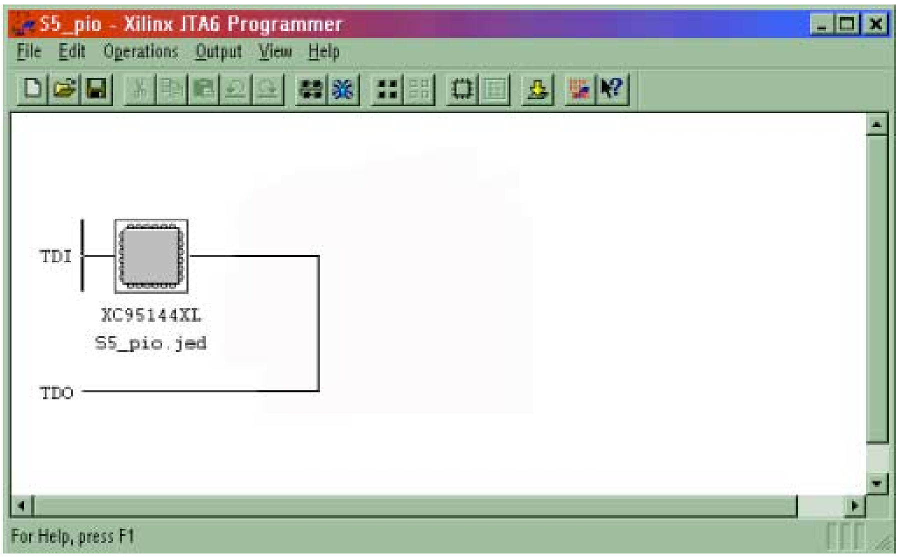
S5.cdf

File name:

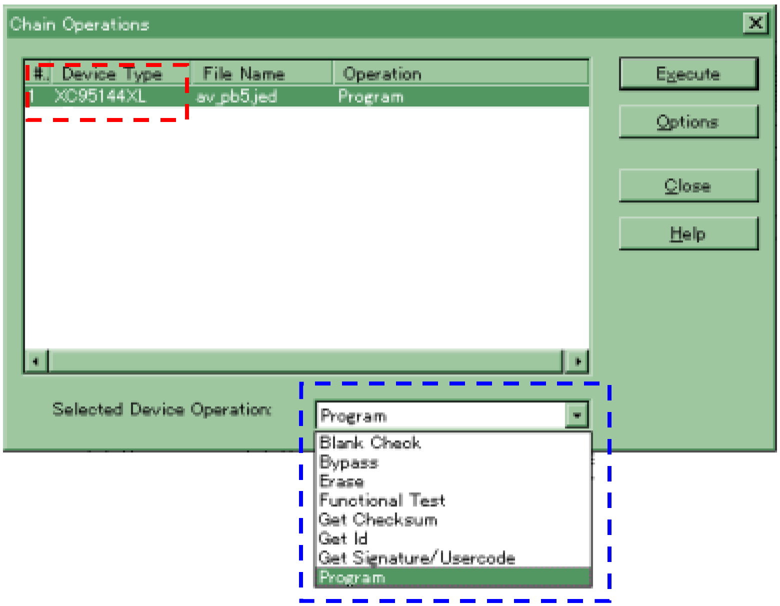
Files of type: Chain Desc. Files (*.cdf)

Open
Cancel

7. Click **"Open"** button, then following screen appears.


S5_pio - Xilinx JTAG Programmer
File Edit Operations Output View Help
TDI
XC95144XL
S5_pio.jed
TDO
For Help, press F1

8. Then click **"Operations"** on menu bar and select **"Chain Operation"**. Then following screen appears.
9. Select the device from the **"Device Type"** column on the Chain Operation Window.
   Click the **"Selected Device Operation"** and select **"Program"**.
   Perform this procedure to all devices.

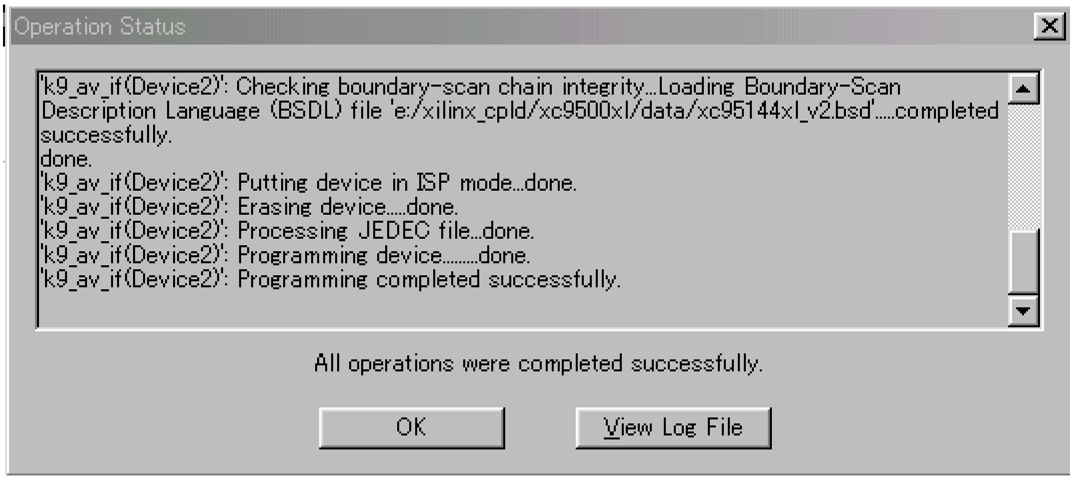


#.	Device Type	File Name	Operation
1	XC95144XL	av_pb5.jed	Program

Selected Device Operation: Program

Chain Operations
Execute
Options
Close
Help
Blank Check
Bypass
Erase
Functional Test
Get Checksum
Get Id
Get Signature/Usercode
Program

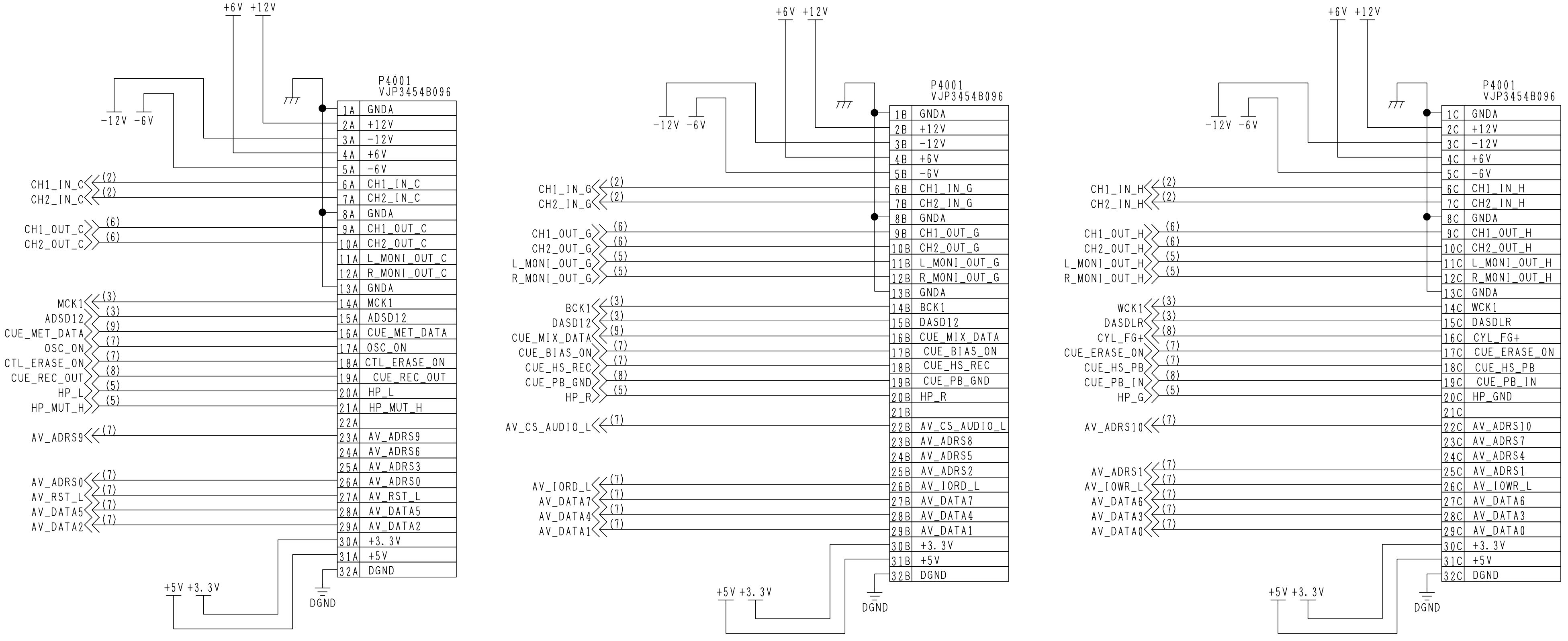
10. Click **"Execute"** button.
11. When the following screen with the message of **"All operation were completed successfully."** appears, data writing is completed.



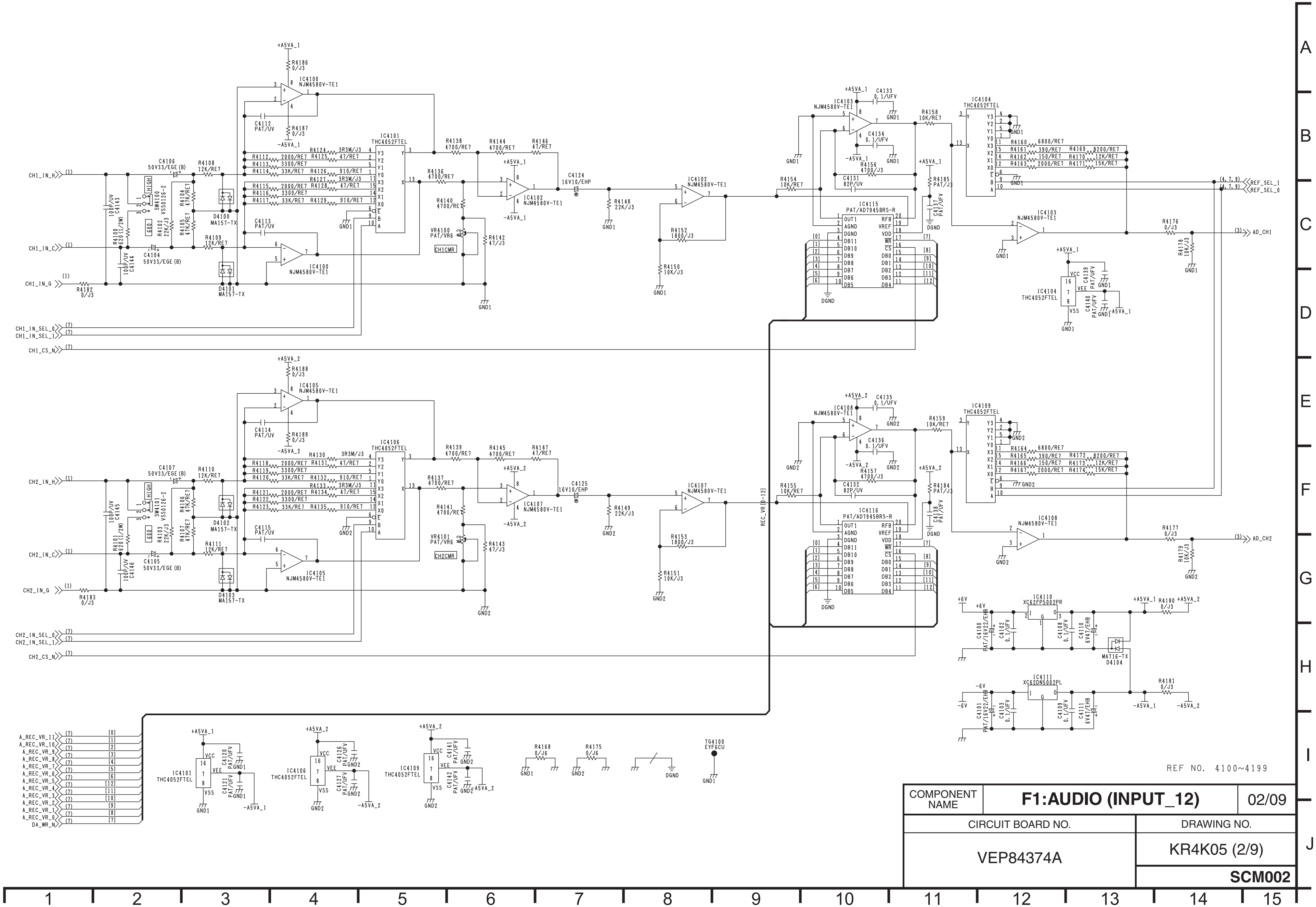
```
'k9_av_if(Device2)': Checking boundary-scan chain integrity...Loading Boundary-Scan
Description Language (BSDL) file 'e:/xilinx_cpld/xc9500xl/data/xc95144xl_v2.bsd'....completed
successfully.
done.
'k9_av_if(Device2)': Putting device in ISP mode...done.
'k9_av_if(Device2)': Erasing device.....done.
'k9_av_if(Device2)': Processing JEDEC file...done.
'k9_av_if(Device2)': Programming device.........done.
'k9_av_if(Device2)': Programming completed successfully.
```

All operations were completed successfully.

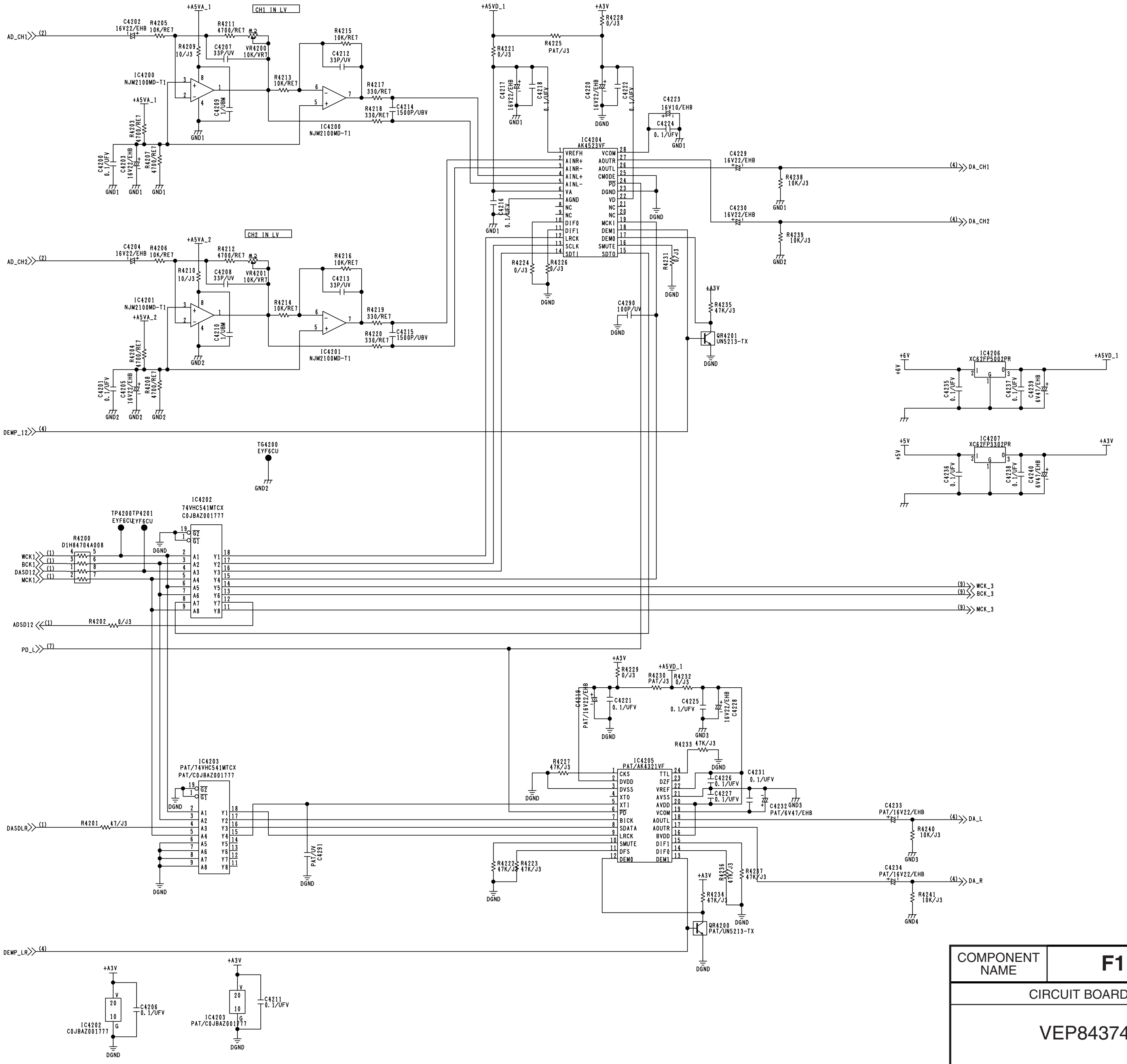
Operation Status
OK
View Log File


+6V
+12V
-12V
-6V
P4001
VJP3454B096
1A GNDA
2A +12V
3A -12V
4A +6V
5A -6V
6A CH1_IN_C
7A CH2_IN_C
8A GNDA
9A CH1_OUT_C
10A CH2_OUT_C
11A L_MONI_OUT_C
12A R_MONI_OUT_C
13A GNDA
14A MCK1
15A ADSD12
16A CUE_MET_DATA
17A OSC_ON
18A CTL_ERASE_ON
19A CUE_REC_OUT
20A HP_L
21A HP_MUT_H
22A
23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
26A AV_ADRS0
27A AV_RST_L
28A AV_DATA5
29A AV_DATA2
30A +3.3V
31A +5V
32A DGND
CH1_IN_C (2)
CH2_IN_C (2)
CH1_OUT_C (6)
CH2_OUT_C (6)
MCK1 (3)
ADSD12 (3)
CUE_MET_DATA (9)
OSC_ON (7)
CTL_ERASE_ON (7)
CUE_REC_OUT (8)
HP_L (5)
HP_MUT_H (5)
AV_ADRS9 (7)
AV_ADRS0 (7)
AV_RST_L (7)
AV_DATA5 (7)
AV_DATA2 (7)
+5V
+3.3V
DGND
+6V
+12V
-12V
-6V
P4001
VJP3454B096
1B GNDA
2B +12V
3B -12V
4B +6V
5B -6V
6B CH1_IN_G
7B CH2_IN_G
8B GNDA
9B CH1_OUT_G
10B CH2_OUT_G
11B L_MONI_OUT_G
12B R_MONI_OUT_G
13B GNDA
14B BCK1
15B DASD12
16B CUE_MIX_DATA
17B CUE_BIAS_ON
18B CUE_HS_REC
19B CUE_PB_GND
20B HP_R
21B
22B AV_CS_AUDIO_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
26B AV_IORD_L
27B AV_DATA7
28B AV_DATA4
29B AV_DATA1
30B +3.3V
31B +5V
32B DGND
CH1_IN_G (2)
CH2_IN_G (2)
CH1_OUT_G (6)
CH2_OUT_G (6)
L_MONI_OUT_G (5)
R_MONI_OUT_G (5)
BCK1 (3)
DASD12 (3)
CUE_MIX_DATA (9)
CUE_BIAS_ON (7)
CUE_HS_REC (7)
CUE_PB_GND (8)
HP_R (5)
AV_CS_AUDIO_L (7)
AV_IORD_L (7)
AV_DATA7 (7)
AV_DATA4 (7)
AV_DATA1 (7)
+5V
+3.3V
DGND
+6V
+12V
-12V
-6V
P4001
VJP3454B096
1C GNDA
2C +12V
3C -12V
4C +6V
5C -6V
6C CH1_IN_H
7C CH2_IN_H
8C GNDA
9C CH1_OUT_H
10C CH2_OUT_H
11C L_MONI_OUT_H
12C R_MONI_OUT_H
13C GNDA
14C WCK1
15C DASDLR
16C CYL_FG+
17C CUE_ERASE_ON
18C CUE_HS_PB
19C CUE_PB_IN
20C HP_GND
21C
22C AV_ADRS10
23C AV_ADRS7
24C AV_ADRS4
25C AV_ADRS1
26C AV_IOWR_L
27C AV_DATA6
28C AV_DATA3
29C AV_DATA0
30C +3.3V
31C +5V
32C DGND
CH1_IN_H (2)
CH2_IN_H (2)
CH1_OUT_H (6)
CH2_OUT_H (6)
L_MONI_OUT_H (5)
R_MONI_OUT_H (5)
WCK1 (3)
DASDLR (3)
CYL_FG+ (8)
CUE_ERASE_ON (7)
CUE_HS_PB (7)
CUE_PB_IN (8)
HP_G (5)
AV_ADRS10 (7)
AV_ADRS1 (7)
AV_IOWR_L (7)
AV_DATA6 (7)
AV_DATA3 (7)
AV_DATA0 (7)
+5V
+3.3V
DGND

COMPONENT NAME	F1:AUDIO(CONNECTOR)	01/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (1/9)	
	SCM001	

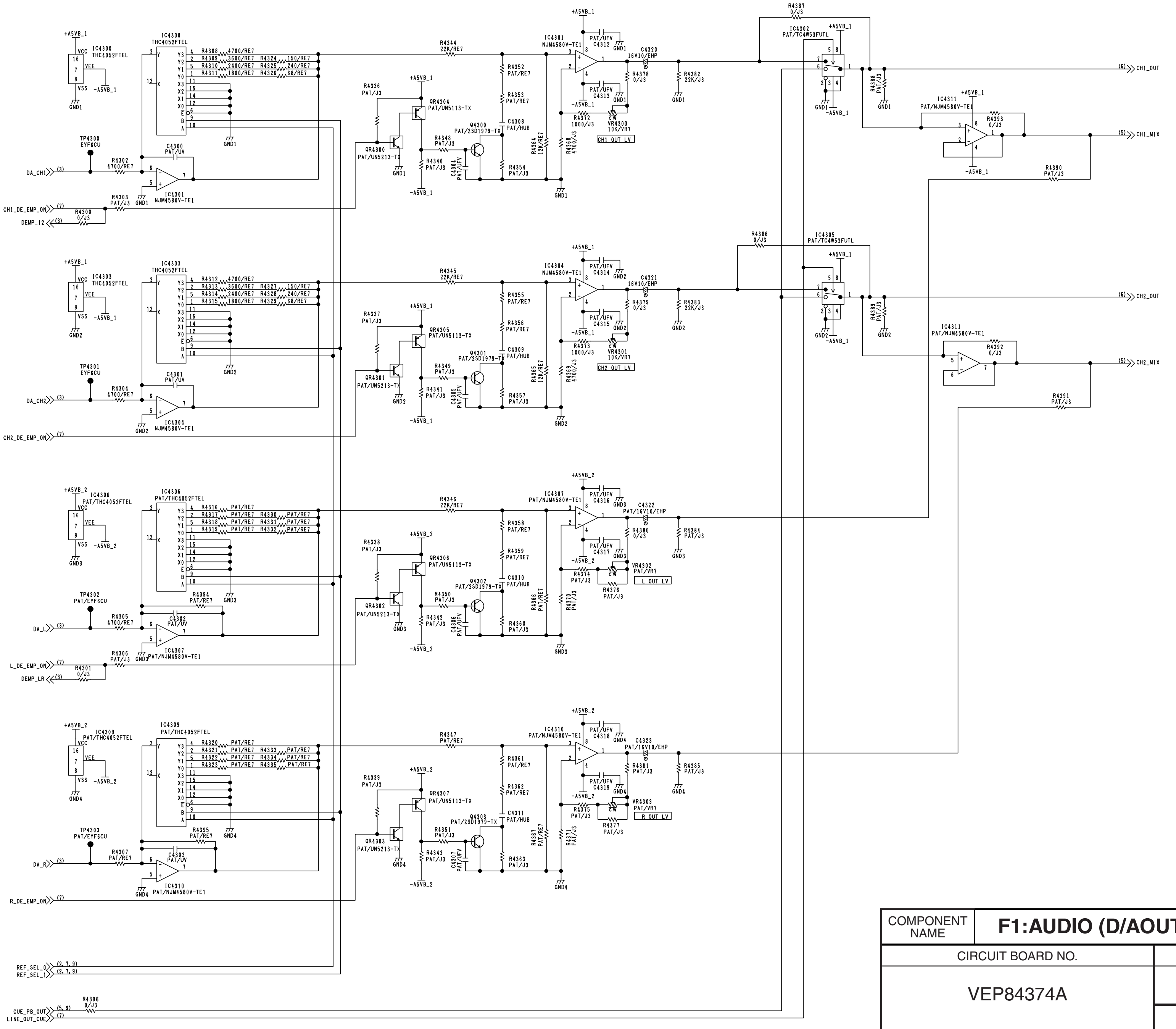

CH1_IN_H
CH1_IN_C
CH1_IN_G
CH1_IN_SEL_0
CH1_IN_SEL_1
CH1_CS_N
CH2_IN_H
CH2_IN_C
CH2_IN_G
CH2_IN_SEL_0
CH2_IN_SEL_1
CH2_CS_N
A_REC_VR_11
A_REC_VR_10
A_REC_VR_9
A_REC_VR_8
A_REC_VR_7
A_REC_VR_6
A_REC_VR_5
A_REC_VR_4
A_REC_VR_3
A_REC_VR_2
A_REC_VR_1
A_REC_VR_0
DA_WR_N
REC_VR[0-12]
IC4100 NJM4580V-TE1
IC4101 THC4052FTEL
IC4102 NJM4580V-TE1
IC4103 NJM4580V-TE1
IC4104 THC4052FTEL
IC4105 NJM4580V-TE1
IC4106 THC4052FTEL
IC4107 NJM4580V-TE1
IC4108 NJM4580V-TE1
IC4109 THC4052FTEL
IC4110 XC62FP5002PR
IC4111 XC62DN5002PL
IC4115 PAT/AD7945BRS-R
IC4116 PAT/AD7945BRS-R
SW4100 VS0126-2
SW4101 VS0126-2
HIGH
600
D4100 MA157-TX
D4101 MA157-TX
D4102 MA157-TX
D4103 MA157-TX
D4104 MA716-TX
VR4100 PAT/VR6
VR4101 PAT/VR6
CH1CMR
CH2CMR
TG4100 EYF6CU
+A5VA_1
-A5VA_1
+A5VA_2
-A5VA_2
+6V
-6V
GND1
GND2
DGND
REF_SEL_1
REF_SEL_0
AD_CH1
AD_CH2
REF NO. 4100~4199
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	F1:AUDIO (INPUT_12)	02/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (2/9)	
	SCM002	

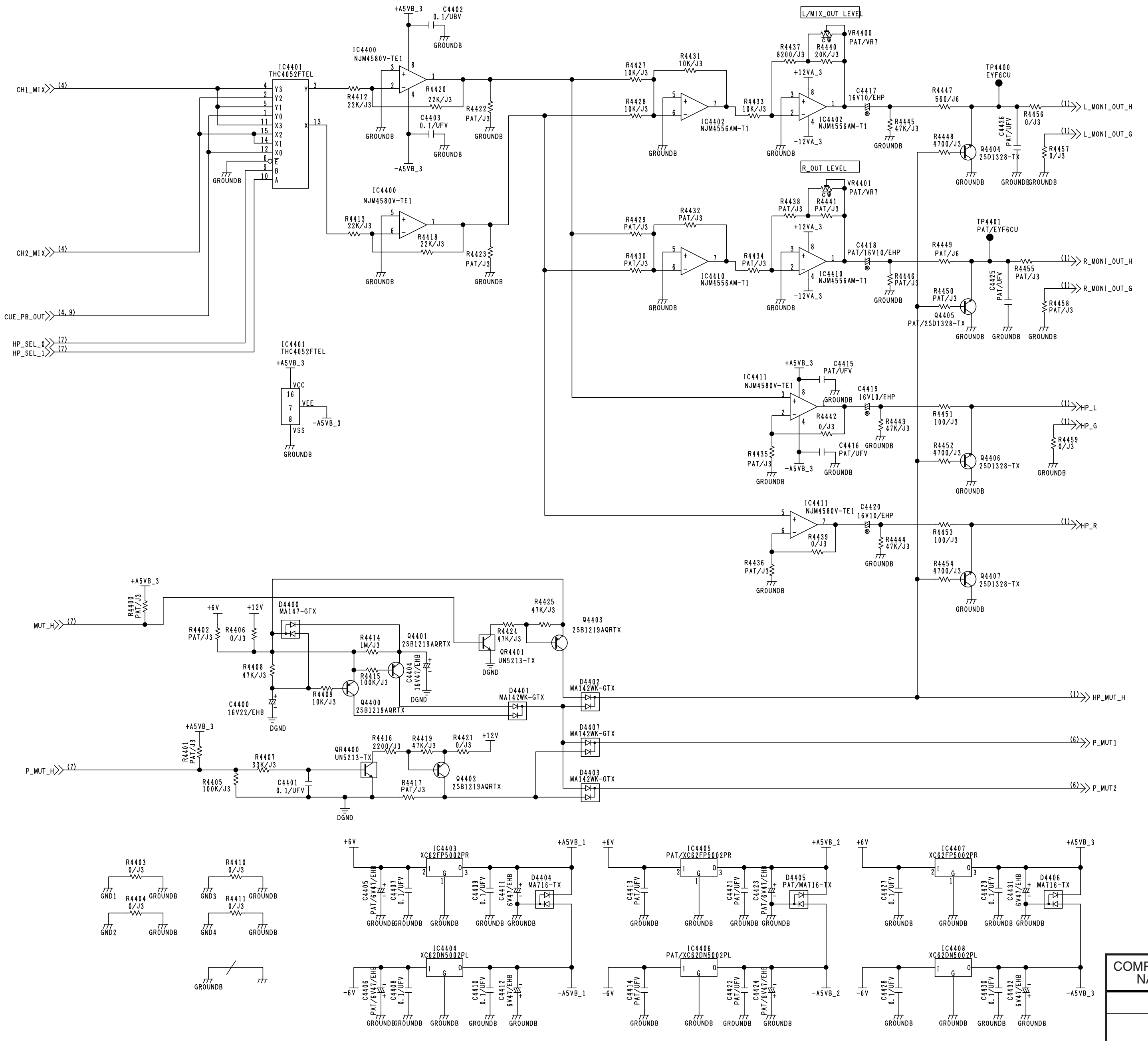

AD_CH1
AD_CH2
CH1 IN LV
CH2 IN LV
+A5VA_1
+A5VA_2
IC4200
NJM2100MD-T1
IC4201
NJM2100MD-T1
IC4204
AK4523VF
VREFH
AINR+
AINR-
AINL+
AINL-
VA
AGND
NC
DIF0
DIF1
LRCK
SCLK
SDTI
VCOM
AOUTR
AOUTL
CMODE
PD
DGND
VD
MCKI
DEM1
DEM0
SMUTE
SDTO
+A5VD_1
+A3V
DA_CH1
DA_CH2
QR4201
UN5213-TX
IC4206
XC62FP5002PR
+6V
IC4207
XC62FP3302PR
+5V
DEMP_12
TG4200
EYF6CU
TP4200
TP4201
IC4202
74VHC541MTCX
C0JBAZ001777
R4200
D1H84704A008
WCK1
BCK1
DASD12
MCK1
ADSD12
PD_L
WCK_3
BCK_3
MCK_3
IC4203
PAT/74VHC541MTCX
PAT/C0JBAZ001777
DASDLR
IC4205
PAT/AK4321VF
CKS
DVDD
DVSS
XTO
XTI
BICK
SDATA
LRCK
SMUTE
DFS
DEM0
TTL
DZF
VREF
AVSS
AVDD
VCOM
AOUTL
AOUTR
BVDD
DIF1
DIF0
DEM1
DA_L
DA_R
QR4200
PAT/UN5213-TX
DEMP_LR
GND1
GND2
GND3
GND4
DGND

REF NO. 4200~4299

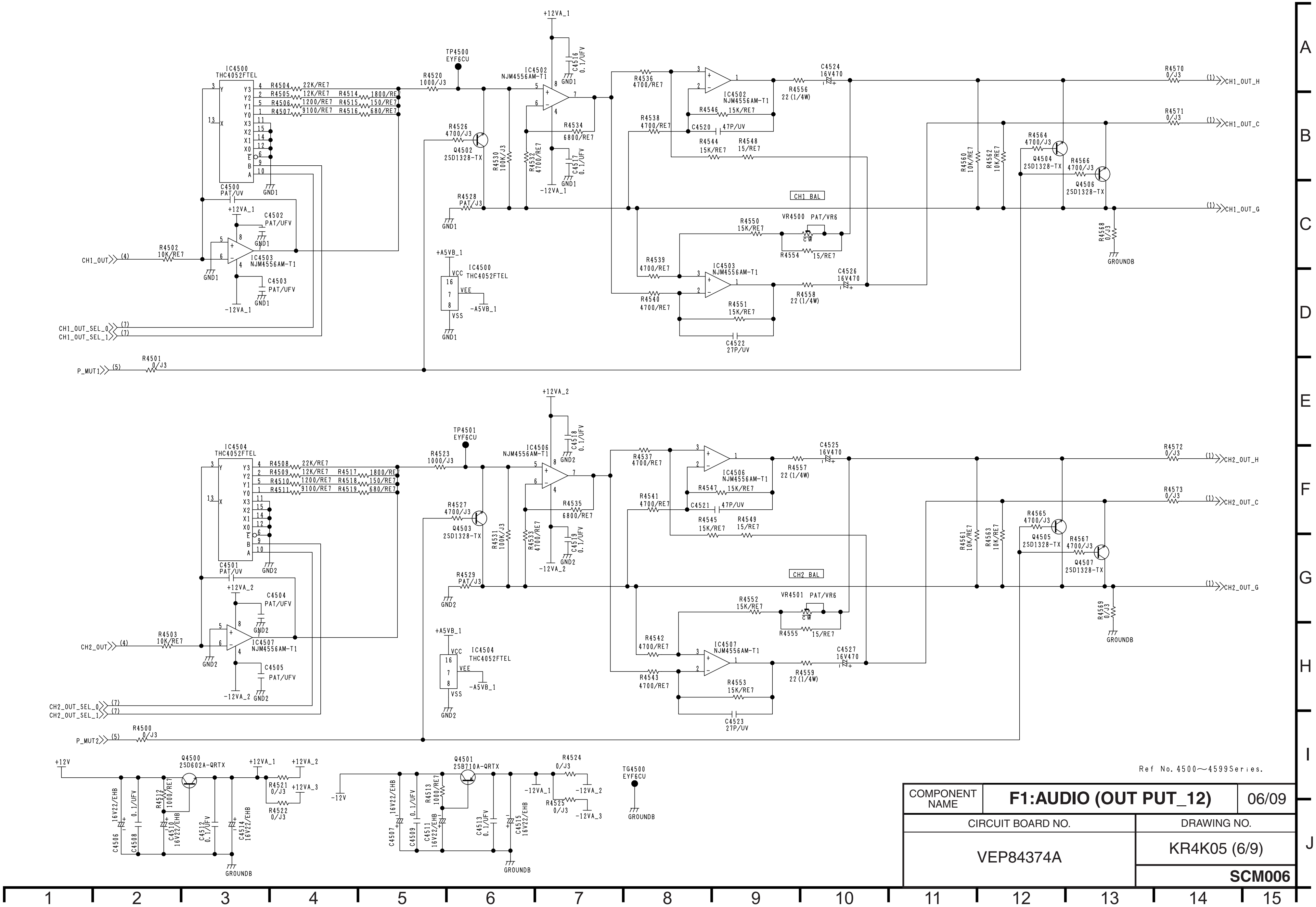
COMPONENT NAME	**F1:AUDIO (D/A, A/D)**	03/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05(3/9)
		SCM003


DA_CH1
CH1_DE_EMP_ON
DEMP_12
DA_CH2
CH2_DE_EMP_ON
DA_L
L_DE_EMP_ON
DEMP_LR
DA_R
R_DE_EMP_ON
REF_SEL_0
REF_SEL_1
CUE_PB_OUT
LINE_OUT_CUE
CH1_OUT
CH1_MIX
CH2_OUT
CH2_MIX
IC4300 THC4052FTEL
IC4301 NJM4580V-TE1
IC4302 PAT/TC4W53FUTL
IC4303 THC4052FTEL
IC4304 NJM4580V-TE1
IC4305 PAT/TC4W53FUTL
IC4306 PAT/THC4052FTEL
IC4307 PAT/NJM4580V-TE1
IC4309 PAT/THC4052FTEL
IC4310 PAT/NJM4580V-TE1
IC4311 PAT/NJM4580V-TE1
QR4300 PAT/UN5213-TX
QR4304 PAT/UN5113-TX
Q4300 PAT/2SD1979-TX
TP4300 EYF6CU
TP4301 EYF6CU
TP4302 PAT/EYF6CU
TP4303 PAT/EYF6CU
VR4300 10K/VR7
VR4301 10K/VR7
VR4302 PAT/VR7
VR4303 PAT/VR7
CH1 OUT LV
CH2 OUT LV
L OUT LV
R OUT LV
+A5VB_1
-A5VB_1
+A5VB_2
-A5VB_2
GND1
GND2
GND3
GND4
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	F1:AUDIO (D/AOUT_12LR)	04/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05(4/9)	
	SCM004	


CH1_MIX (4)
CH2_MIX (4)
CUE_PB_OUT (4,9)
HP_SEL_0 (7)
HP_SEL_1 (7)
IC4401 THC4052FTEL
IC4400 NJM4580V-TE1
IC4402 NJM4556AM-T1
IC4410 NJM4556AM-T1
IC4411 NJM4580V-TE1
L/MIX_OUT LEVEL
VR4400 PAT/VR7
R_OUT LEVEL
VR4401 PAT/VR7
TP4400 EYF6CU
TP4401 PAT/EYF6CU
Q4404 2SD1328-TX
Q4405 PAT/2SD1328-TX
Q4406 2SD1328-TX
Q4407 2SD1328-TX
(1) L_MONI_OUT_H
(1) L_MONI_OUT_G
(1) R_MONI_OUT_H
(1) R_MONI_OUT_G
(1) HP_L
(1) HP_G
(1) HP_R
(1) HP_MUT_H
(6) P_MUT1
(6) P_MUT2
MUT_H (7)
P_MUT_H (7)
D4400 MA147-GTX
Q4401 2SB1219AQRTX
Q4400 2SB1219AQRTX
Q4403 2SB1219AQRTX
Q4402 2SB1219AQRTX
QR4401 UN5213-TX
QR4400 UN5213-TX
D4401 MA142WK-GTX
D4402 MA142WK-GTX
D4407 MA142WK-GTX
D4403 MA142WK-GTX
IC4403 XC62FP5002PR
IC4404 XC62DN5002PL
IC4405 PAT/XC62FP5002PR
IC4406 PAT/XC62DN5002PL
IC4407 XC62FP5002PR
IC4408 XC62DN5002PL
D4404 MA716-TX
D4405 PAT/MA716-TX
D4406 MA716-TX
+A5VB_1
-A5VB_1
+A5VB_2
-A5VB_2
+A5VB_3
-A5VB_3
+6V
-6V
+12V
GROUNDB
DGND
GND1
GND2
GND3
GND4

COMPONENT NAME	F1:AUDIO (MIX/HP_OUT)	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (5/9)	
	SCM005	


IC4500
THC4052FTEL
IC4502
NJM4556AM-T1
IC4503
NJM4556AM-T1
IC4504
THC4052FTEL
IC4506
NJM4556AM-T1
IC4507
NJM4556AM-T1
TP4500
EYF6CU
TP4501
EYF6CU
R4520
1000/J3
R4523
1000/J3
R4504 22K/RE7
R4505 12K/RE7
R4506 1200/RE7
R4507 9100/RE7
R4514 1800/RE7
R4515 150/RE7
R4516 680/RE7
R4508 22K/RE7
R4509 12K/RE7
R4510 1200/RE7
R4511 9100/RE7
R4517 1800/RE7
R4518 150/RE7
R4519 680/RE7
R4502 10K/RE7
R4503 10K/RE7
R4501 0/J3
R4500 0/J3
R4526 4700/J3
R4527 4700/J3
Q4502 2SD1328-TX
Q4503 2SD1328-TX
R4528 PAT/J3
R4529 PAT/J3
R4530 100K/J3
R4531 100K/J3
R4532 4700/RE7
R4533 4700/RE7
R4534 6800/RE7
R4535 6800/RE7
C4516 0.1/UFV
C4517 0.1/UFV
C4518 0.1/UFV
C4519 0.1/UFV
C4500 PAT/UV
C4501 PAT/UV
C4502 PAT/UFV
C4503 PAT/UFV
C4504 PAT/UFV
C4505 PAT/UFV
R4536 4700/RE7
R4537 4700/RE7
R4538 4700/RE7
R4541 4700/RE7
C4520 47P/UV
C4521 47P/UV
R4546 15K/RE7
R4547 15K/RE7
R4544 15K/RE7
R4545 15K/RE7
R4548 15/RE7
R4549 15/RE7
R4556 22 (1/4W)
R4557 22 (1/4W)
R4558 22 (1/4W)
R4559 22 (1/4W)
C4524 16V470
C4525 16V470
C4526 16V470
C4527 16V470
CH1 BAL
CH2 BAL
R4550 15K/RE7
R4552 15K/RE7
VR4500 PAT/VR6
VR4501 PAT/VR6
CW
R4554 15/RE7
R4555 15/RE7
R4539 4700/RE7
R4540 4700/RE7
R4542 4700/RE7
R4543 4700/RE7
R4551 15K/RE7
R4553 15K/RE7
C4522 27P/UV
C4523 27P/UV
R4560 10K/RE7
R4561 10K/RE7
R4562 10K/RE7
R4563 10K/RE7
R4564 4700/J3
R4565 4700/J3
R4566 4700/J3
R4567 4700/J3
Q4504 2SD1328-TX
Q4505 2SD1328-TX
Q4506 2SD1328-TX
Q4507 2SD1328-TX
R4568 0/J3
R4569 0/J3
R4570 0/J3
R4571 0/J3
R4572 0/J3
R4573 0/J3
(1) CH1_OUT_H
(1) CH1_OUT_C
(1) CH1_OUT_G
(1) CH2_OUT_H
(1) CH2_OUT_C
(1) CH2_OUT_G
CH1_OUT (4)
CH2_OUT (4)
CH1_OUT_SEL_0 (7)
CH1_OUT_SEL_1 (7)
CH2_OUT_SEL_0 (7)
CH2_OUT_SEL_1 (7)
P_MUT1 (5)
P_MUT2 (5)
+12VA_1
-12VA_1
+12VA_2
-12VA_2
+A5VB_1
-A5VB_1
VCC
VEE
VSS
GND1
GND2
GROUNDB
+12V
Q4500
2SD602A-QRTX
R4512 1000/RE7
C4506 16V22/EHB
C4508 0.1/UFV
C4510 16V22/EHB
C4512 0.1/UFV
C4514 16V22/EHB
R4521 0/J3
R4522 0/J3
+12VA_3
-12V
Q4501
2SB710A-QRTX
C4507 16V22/EHB
C4509 0.1/UFV
R4513 1000/RE7
C4511 16V22/EHB
C4513 0.1/UFV
C4515 16V22/EHB
R4524 0/J3
R4525 0/J3
-12VA_3
TG4500
EYF6CU
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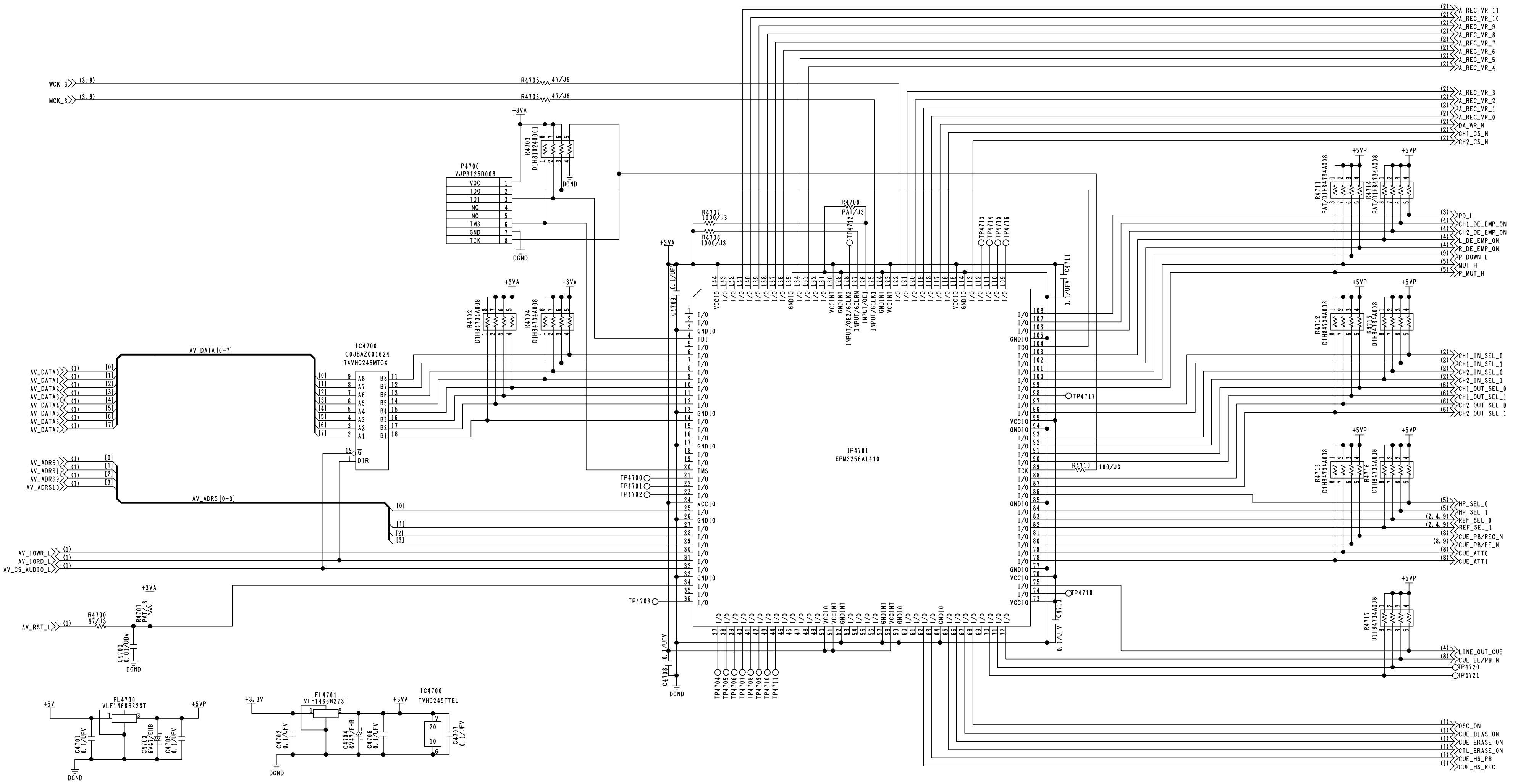
Ref No. 4500～4599Series.

COMPONENT NAME	F1:AUDIO (OUT PUT_12)	06/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (6/9)	
	SCM006	


WCK_3 (3, 9)
MCK_3 (3, 9)
R4705 47/J6
R4706 47/J6
+3VA
R4703 D1H810240001
DGND
P4700 VJP3125D008
VDC
TDO
TDI
NC
NC
TMS
GND
TCK
R4707 1000/J3
R4708 1000/J3
R4709 PAT/J3
TP4712
TP4713
TP4714
TP4715
TP4716
C4709 0.1/UF
C4711 0.1/UFV
R4702 D1H84734A008
R4704 D1H84734A008
AV_DATA[0-7]
IC4700 C0JBAZ001624 74VHC245MTCX
AV_DATA0
AV_DATA1
AV_DATA2
AV_DATA3
AV_DATA4
AV_DATA5
AV_DATA6
AV_DATA7
A8
A7
A6
A5
A4
A3
A2
A1
B8
B7
B6
B5
B4
B3
B2
B1
G
DIR
AV_ADRS0
AV_ADRS1
AV_ADRS9
AV_ADRS10
AV_ADRS[0-3]
AV_IOWR_L
AV_IORD_L
AV_CS_AUDIO_L
IP4701 EPM3256A1410
VCCIO
GNDIO
VCCINT
GNDINT
INPUT/OE2/GCLK2
INPUT/GCLRN
INPUT/OE1
INPUT/GCLK1
TDI
TDO
TMS
TCK
I/O
TP4700
TP4701
TP4702
TP4703
TP4704
TP4705
TP4706
TP4707
TP4708
TP4709
TP4710
TP4711
TP4717
TP4718
R4710 100/J3
C4708 0.1/UFV
C4710 0.1/UFV
R4700 47/J3
R4701 PAT/J3
AV_RST_L (1)
C4700 0.01/UBV
+5V
FL4700 VLF1466B223T
+5VP
C4701 0.1/UFV
C4703 6V47/EHB
C4705 0.1/UFV
+3.3V
FL4701 VLF1466B223T
C4702 0.1/UFV
C4704 6V47/EHB
C4706 0.1/UFV
IC4700 TVHC245FTEL
C4707 0.1/UFV
R4711 PAT/D1H84734A008
R4714 PAT/D1H84734A008
R4712 D1H84734A008
R4715 D1H84734A008
R4713 D1H84734A008
R4716 D1H84734A008
R4717 D1H84734A008
(2) A_REC_VR_11
(2) A_REC_VR_10
(2) A_REC_VR_9
(2) A_REC_VR_8
(2) A_REC_VR_7
(2) A_REC_VR_6
(2) A_REC_VR_5
(2) A_REC_VR_4
(2) A_REC_VR_3
(2) A_REC_VR_2
(2) A_REC_VR_1
(2) A_REC_VR_0
(2) DA_WR_N
(2) CH1_CS_N
(2) CH2_CS_N
(3) PD_L
(4) CH1_DE_EMP_ON
(4) CH2_DE_EMP_ON
(4) L_DE_EMP_ON
(4) R_DE_EMP_ON
(9) P_DOWN_L
(5) MUT_H
(5) P_MUT_H
(2) CH1_IN_SEL_0
(2) CH1_IN_SEL_1
(2) CH2_IN_SEL_0
(2) CH2_IN_SEL_1
(6) CH1_OUT_SEL_0
(6) CH1_OUT_SEL_1
(6) CH2_OUT_SEL_0
(6) CH2_OUT_SEL_1
(5) HP_SEL_0
(5) HP_SEL_1
(2, 4, 9) REF_SEL_0
(2, 4, 9) REF_SEL_1
(8) CUE_PB/REC_N
(8, 9) CUE_PB/EE_N
(8) CUE_ATT0
(8) CUE_ATT1
(4) LINE_OUT_CUE
(8) CUE_EE/PB_N
TP4720
TP4721
(1) OSC_ON
(1) CUE_BIAS_ON
(1) CUE_ERASE_ON
(1) CTL_ERASE_ON
(1) CUE_HS_PB
(1) CUE_HS_REC
A
B
C
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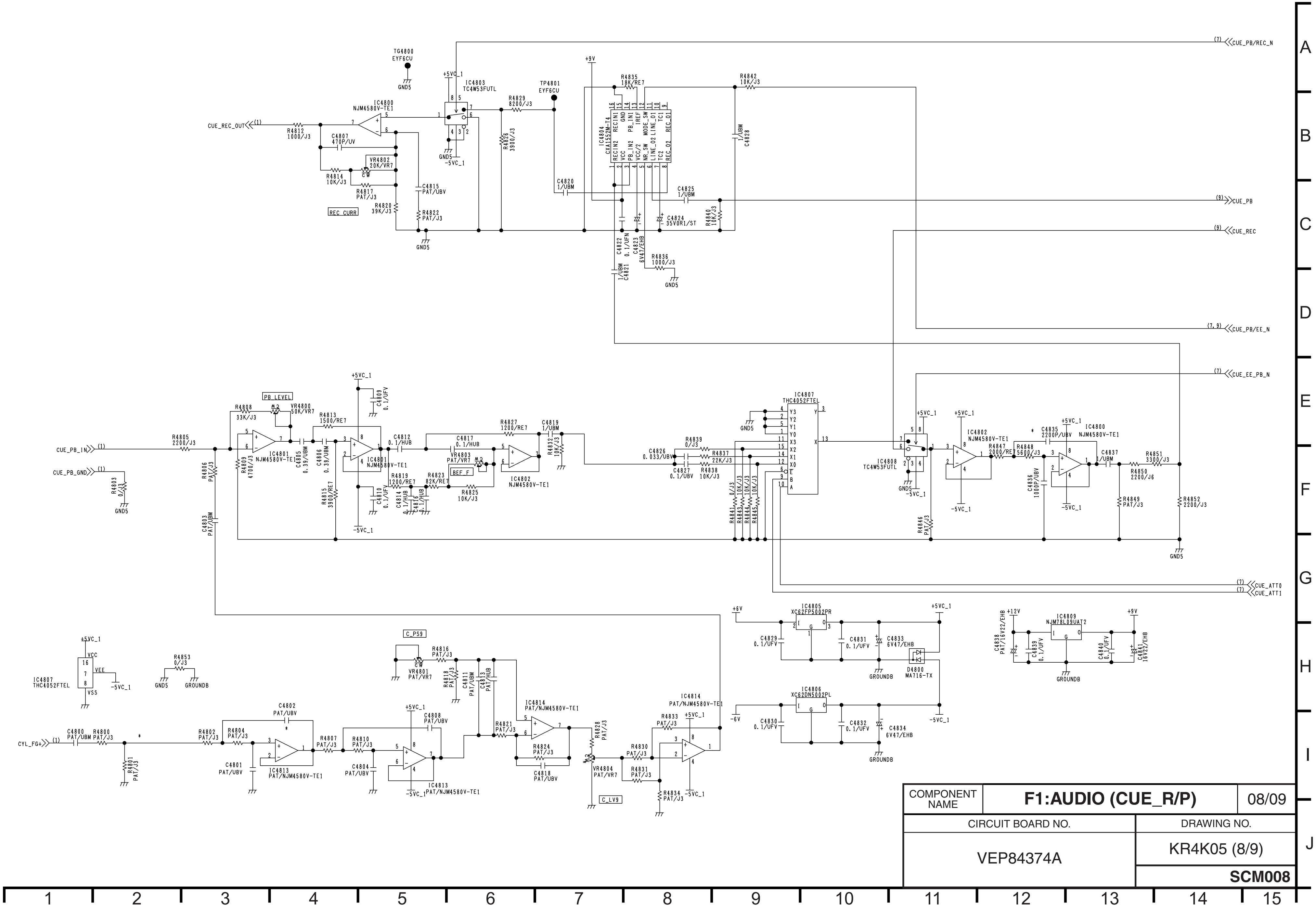
COMPONENT NAME	F1:AUDIO (PIO)	07/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (7/9)	
	SCM007	



A
B
C
D
E
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G
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J
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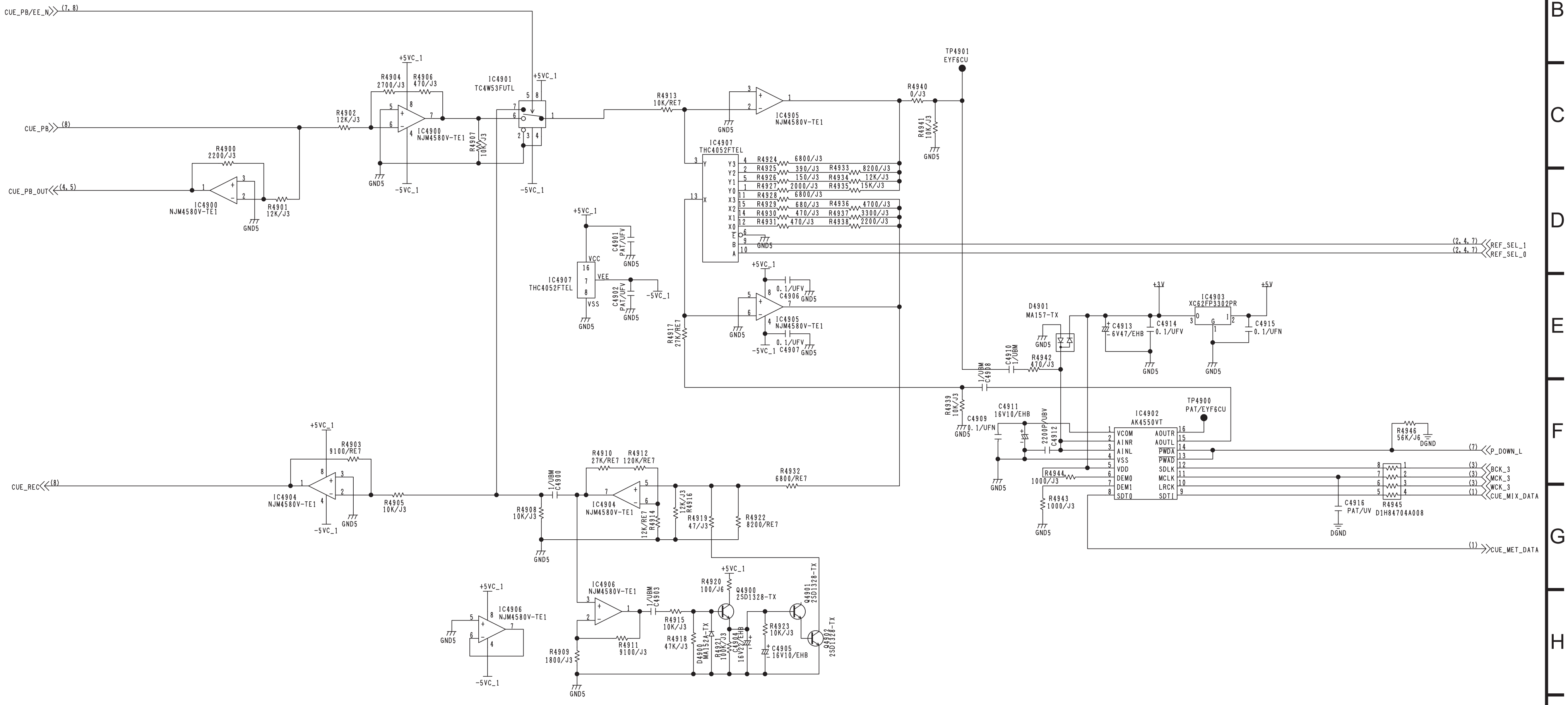
TG4800 EYF6CU
GND5
CUE_REC_OUT (1)
R4812 1000/J3
IC4800 NJM4580V-TE1
C4807 470P/UV
VR4802 20K/VR7
CW
R4814 10K/J3
R4817 PAT/J3
R4820 39K/J3
REC CURR
C4815 PAT/UBV
R4822 PAT/J3
+5VC_1
IC4803 TC4W53FUTL
-5VC_1
R4829 8200/J3
R4826 3900/J3
TP4801 EYF6CU
C4820 1/UBM
+9V
R4835 18K/RE7
IC4804 CXA1552M-T4
RECIN2 VCC PB_IN2 VCC/2 NR_SW LINE_O2 TC2 REC_O2
RECIN1 GND PB_IN1 IREF MODE_SW LINE_O1 TC1 REC_O1
R4842 10K/J3
C4828 1/UBM
C4825 1/UBM
C4822 0.1/UFN
C4823 6V47/EHB
C4824 35V0R1/ST
R4840 10K/J3
C4821 1/UBM
R4836 1000/J3
(7) CUE_PB/REC_N
(9) CUE_PB
(9) CUE_REC
(7, 9) CUE_PB/EE_N
(7) CUE_EE_PB_N
CUE_PB_IN (1)
CUE_PB_GND (1)
R4803 0/J3
R4805 2200/J3
R4806 PAT/J3
C4803 PAT/UBM
PB LEVEL
R4808 33K/J3
VR4800 50K/VR7
R4809 4700/J3
IC4801 NJM4580V-TE1
C4805 0.39/UBM
C4806 0.39/UBM
R4813 1500/RE7
R4815 3900/RE7
C4809 0.1/UFV
C4810 0.1/UFV
C4812 0.1/HUB
C4814 0.1/HUB
C4816 0.1/HUB
R4819 1200/RE7
R4823 82K/RE7
C4817 0.1/HUB
VR4803 PAT/VR7
REF F
R4825 10K/J3
R4827 1200/RE7
C4819 1/UBM
IC4802 NJM4580V-TE1
R4832 10K/J3
C4826 0.033/UBV
C4827 0.1/UBV
R4839 0/J3
R4837 22K/J3
R4838 10K/J3
R4841 0/J3
R4843 10K/J3
R4844 10K/J3
R4845 10K/J3
IC4807 THC4052FTEL
IC4808 TC4W53FUTL
R4846 PAT/J3
R4847 2000/RE7
R4848 5600/J3
C4835 2200P/UBV
C4836 1000P/UBV
C4837 1/UBM
R4850 2200/J6
R4851 3300/J3
R4849 PAT/J3
R4852 2200/J3
(7) CUE_ATT0
(7) CUE_ATT1
+6V
IC4805 XC62FP5002PR
C4829 0.1/UFV
C4831 0.1/UFV
C4833 6V47/EHB
D4800 MA716-TX
GROUNDB
-6V
IC4806 XC62DN5002PL
C4830 0.1/UFV
C4832 0.1/UFV
C4834 6V47/EHB
+12V
IC4809 NJM78L09UAT2
C4838 PAT/16V22/EHB
C4839 0.1/UFV
C4840 0.1/UFV
C4841 16V22/EHB
VCC VEE VSS
R4853 0/J3
CYL_FG+ (1)
C4800 PAT/UBM
R4800 PAT/J3
R4801 PAT/J3
R4802 PAT/J3
R4804 PAT/J3
C4802 PAT/UBV
C4801 PAT/UBV
IC4813 PAT/NJM4580V-TE1
R4807 PAT/J3
R4810 PAT/J3
C4804 PAT/UBV
C4808 PAT/UBV
C_PS9
VR4801 PAT/VR7
R4816 PAT/J3
R4818 PAT/J3
C4811 PAT/UBM
C4813 PAT/HUB
R4821 PAT/J3
IC4814 PAT/NJM4580V-TE1
R4824 PAT/J3
C4818 PAT/UBV
R4828 PAT/J3
VR4804 PAT/VR7
C_LV9
R4833 PAT/J3
R4830 PAT/J3
R4831 PAT/J3
R4834 PAT/J3

COMPONENT NAME	F1:AUDIO (CUE_R/P)	08/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (8/9)
		SCM008


CUE_PB/EE_N (7, 8)
CUE_PB (8)
CUE_PB_OUT (4, 5)
CUE_REC (8)
IC4900 NJM4580V-TE1
IC4901 TC4W53FUTL
IC4902 AK4550VT
IC4903 XC62FP3302PR
IC4904 NJM4580V-TE1
IC4905 NJM4580V-TE1
IC4906 NJM4580V-TE1
IC4907 THC4052FTEL
TP4900 PAT/EYF6CU
TP4901 EYF6CU
D4900 MA152K-TX
D4901 MA157-TX
Q4900 2SD1328-TX
Q4901 2SD1328-TX
Q4902 2SD1328-TX
R4900 2200/J3
R4901 12K/J3
R4902 12K/J3
R4903 9100/RE7
R4904 2700/J3
R4905 10K/J3
R4906 470/J3
R4907 10K/J3
R4908 10K/J3
R4909 1800/J3
R4910 27K/RE7
R4911 9100/J3
R4912 120K/RE7
R4913 10K/RE7
R4914 12K/RE7
R4915 10K/J3
R4916 12K/J3
R4917 27K/RE7
R4918 47K/J3
R4919 47/J3
R4920 100/J6
R4921 100K/J3
R4922 8200/RE7
R4923 10K/J3
R4924 6800/J3
R4925 390/J3
R4926 150/J3
R4927 2000/J3
R4928 6800/J3
R4929 680/J3
R4930 470/J3
R4931 470/J3
R4932 6800/RE7
R4933 8200/J3
R4934 12K/J3
R4935 15K/J3
R4936 4700/J3
R4937 3300/J3
R4938 2200/J3
R4939 10K/J3
R4940 0/J3
R4941 10K/J3
R4942 470/J3
R4943 1000/J3
R4944 1000/J3
R4945 D1H84704A008
R4946 56K/J6
C4900 1/UBM
C4901 PAT/UFV
C4902 PAT/UFV
C4903 1/UBM
C4904 16V22/EHB
C4905 16V10/EHB
C4906 0.1/UFV
C4907 0.1/UFV
C4908 1/UBM
C4909 0.1/UFN
C4910 1/UBM
C4911 16V10/EHB
C4912 2200P/UBV
C4913 6V47/EHB
C4914 0.1/UFV
C4915 0.1/UFN
C4916 PAT/UV
+5VC_1
-5VC_1
+3V
+5V
GND5
DGND
VCC
VEE
VSS
VCOM
AINR
AINL
VSS
VDD
DEM0
DEM1
SDTO
AOUTR
AOUTL
PWDA
PWAD
SDLK
MCLK
LRCK
SDTI
Y3
Y2
Y1
Y0
X3
X2
X1
X0
E
B
A
Y
X
(2, 4, 7) REF_SEL_1
(2, 4, 7) REF_SEL_0
(7) P_DOWN_L
(3) BCK_3
(3) MCK_3
(3) WCK_3
(1) CUE_MIX_DATA
(1) CUE_MET_DATA
A
B
C
D
E
F
G
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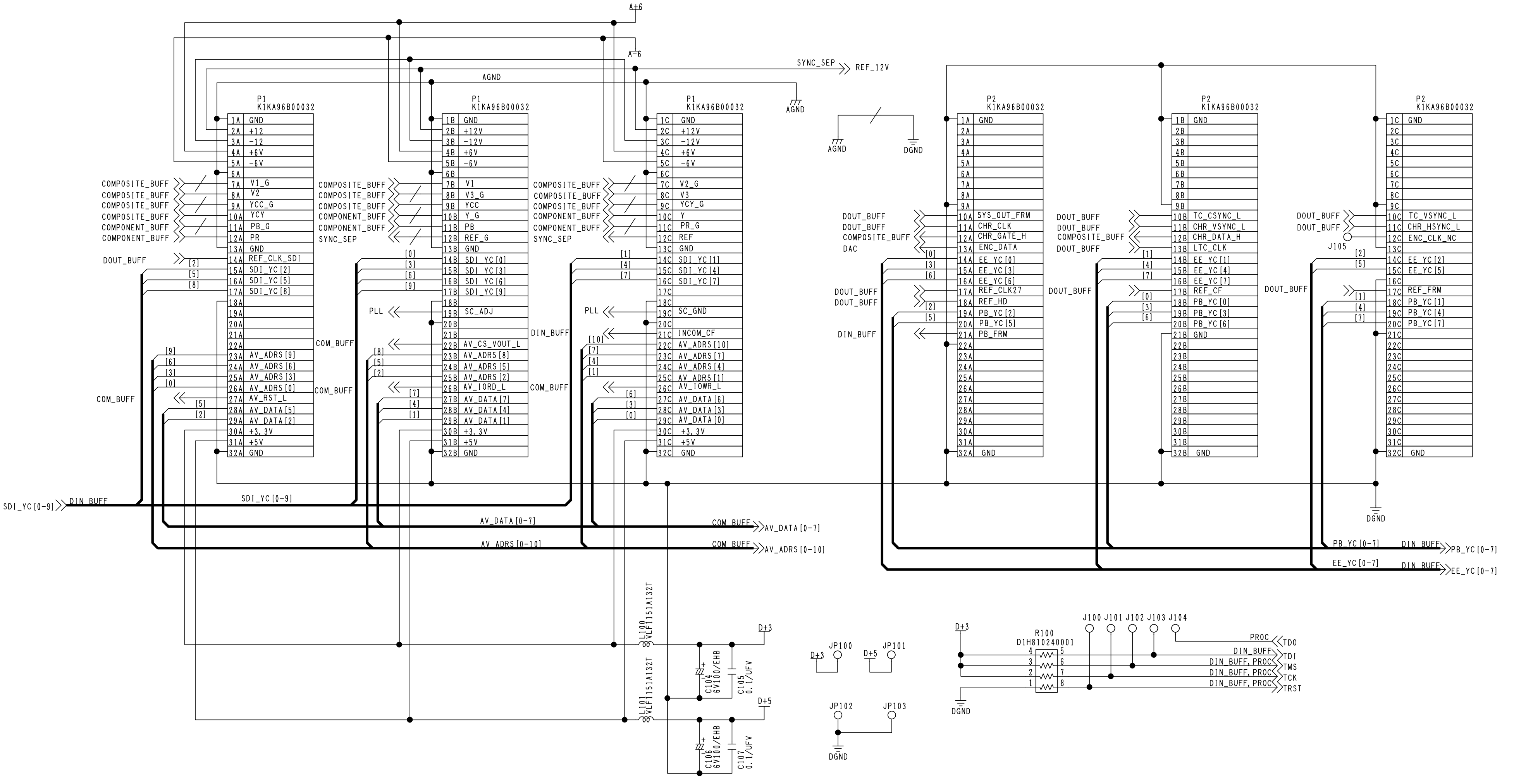
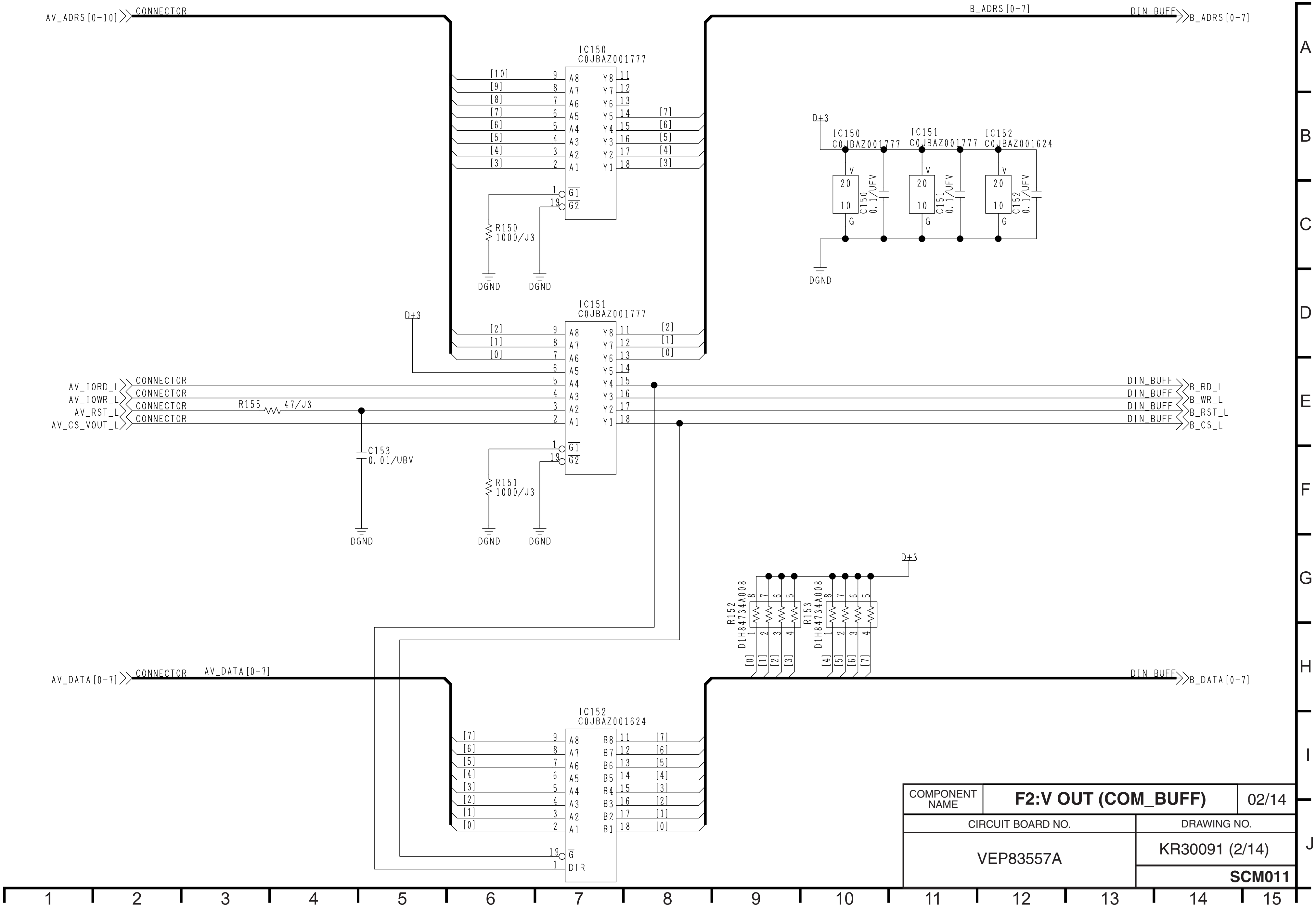
COMPONENT NAME	**F1:AUDIO (CUE_INPUT)**	09/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (9/9)	
	SCM009	


P1 K1KA96B00032
P2 K1KA96B00032
A+6
A-6
AGND
DGND
SYNC_SEP
REF_12V
1A GND
2A +12
3A -12
4A +6V
5A -6V
7A V1_G
8A V2
9A YCC_G
10A YCY
11A PB_G
12A PR
13A GND
14A REF_CLK_SDI
15A SDI_YC[2]
16A SDI_YC[5]
17A SDI_YC[8]
23A AV_ADRS[9]
24A AV_ADRS[6]
25A AV_ADRS[3]
26A AV_ADRS[0]
27A AV_RST_L
28A AV_DATA[5]
29A AV_DATA[2]
30A +3.3V
31A +5V
32A GND
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
7B V1
8B V3_G
9B YCC
10B Y_G
11B PB
12B REF_G
13B GND
14B SDI_YC[0]
15B SDI_YC[3]
16B SDI_YC[6]
17B SDI_YC[9]
19B SC_ADJ
22B AV_CS_VOUT_L
23B AV_ADRS[8]
24B AV_ADRS[5]
25B AV_ADRS[2]
26B AV_IORD_L
27B AV_DATA[7]
28B AV_DATA[4]
29B AV_DATA[1]
30B +3.3V
31B +5V
32B GND
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
7C V2_G
8C V3
9C YCY_G
10C Y
11C PR_G
12C REF
13C GND
14C SDI_YC[1]
15C SDI_YC[4]
16C SDI_YC[7]
19C SC_GND
21C INCOM_CF
22C AV_ADRS[10]
23C AV_ADRS[7]
24C AV_ADRS[4]
25C AV_ADRS[1]
26C AV_IOWR_L
27C AV_DATA[6]
28C AV_DATA[3]
29C AV_DATA[0]
30C +3.3V
31C +5V
32C GND
COMPOSITE_BUFF
COMPONENT_BUFF
DOUT_BUFF
COM_BUFF
DIN_BUFF
PLL
DAC
SDI_YC[0-9]
AV_DATA[0-7]
AV_ADRS[0-10]
10A SYS_OUT_FRM
11A CHR_CLK
12A CHR_GATE_H
13A ENC_DATA
14A EE_YC[0]
15A EE_YC[3]
16A EE_YC[6]
17A REF_CLK27
18A REF_HD
19A PB_YC[2]
20A PB_YC[5]
21A PB_FRM
10B TC_CSYNC_L
11B CHR_VSYNC_L
12B CHR_DATA_H
13B LTC_CLK
14B EE_YC[1]
15B EE_YC[4]
16B EE_YC[7]
17B REF_CF
18B PB_YC[0]
19B PB_YC[3]
20B PB_YC[6]
21B GND
10C TC_VSYNC_L
11C CHR_HSYNC_L
12C ENC_CLK_NC
14C EE_YC[2]
15C EE_YC[5]
17C REF_FRM
18C PB_YC[1]
19C PB_YC[4]
20C PB_YC[7]
J105
PB_YC[0-7]
EE_YC[0-7]
L100 VLF1151A132T
L101 VLF1151A132T
C104 6V100/EHB
C105 0.1/UFV
C106 6V100/EHB
C107 0.1/UFV
D+3
D+5
JP100
JP101
JP102
JP103
J100 J101 J102 J103 J104
R100 D1H810240001
PROC
TDO
TDI
TMS
TCK
TRST
DIN_BUFF,PROC

COMPONENT NAME	F2:V OUT (CONNECTOR)	01/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (1/14)	
	SCM010	


AV_ADRS[0-10]
CONNECTOR
B_ADRS[0-7]
DIN_BUFF
B_ADRS[0-7]
IC150
C0JBAZ001777
[10]
[9]
[8]
[7]
[6]
[5]
[4]
[3]
A8
A7
A6
A5
A4
A3
A2
A1
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G1
G2
R150
1000/J3
DGND
D+3
IC150
C0JBAZ001777
IC151
C0JBAZ001777
IC152
C0JBAZ001624
V
20
10
G
C150
0.1/UFV
C151
0.1/UFV
C152
0.1/UFV
DGND
IC151
C0JBAZ001777
[2]
[1]
[0]
D+3
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_CS_VOUT_L
CONNECTOR
R155
47/J3
C153
0.01/UBV
R151
1000/J3
DGND
DIN_BUFF
B_RD_L
B_WR_L
B_RST_L
B_CS_L
D+3
R152
D1H84734A008
R153
D1H84734A008
AV_DATA[0-7]
CONNECTOR
AV_DATA[0-7]
DIN_BUFF
B_DATA[0-7]
IC152
C0JBAZ001624
B8
B7
B6
B5
B4
B3
B2
B1
G
DIR
A
B
C
D
E
F
G
H
I
J
1
2
3
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6
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9
10
11
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13
14
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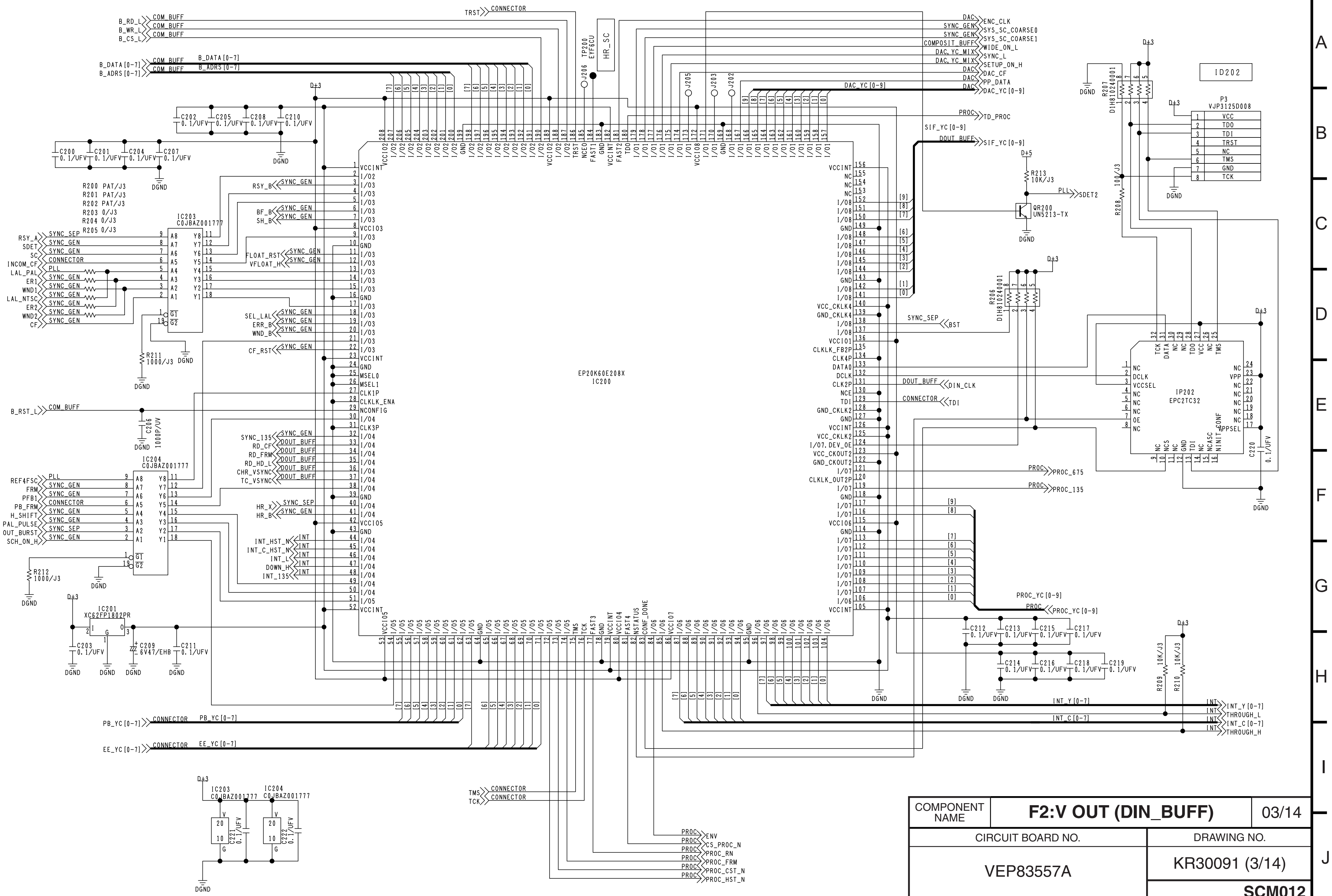
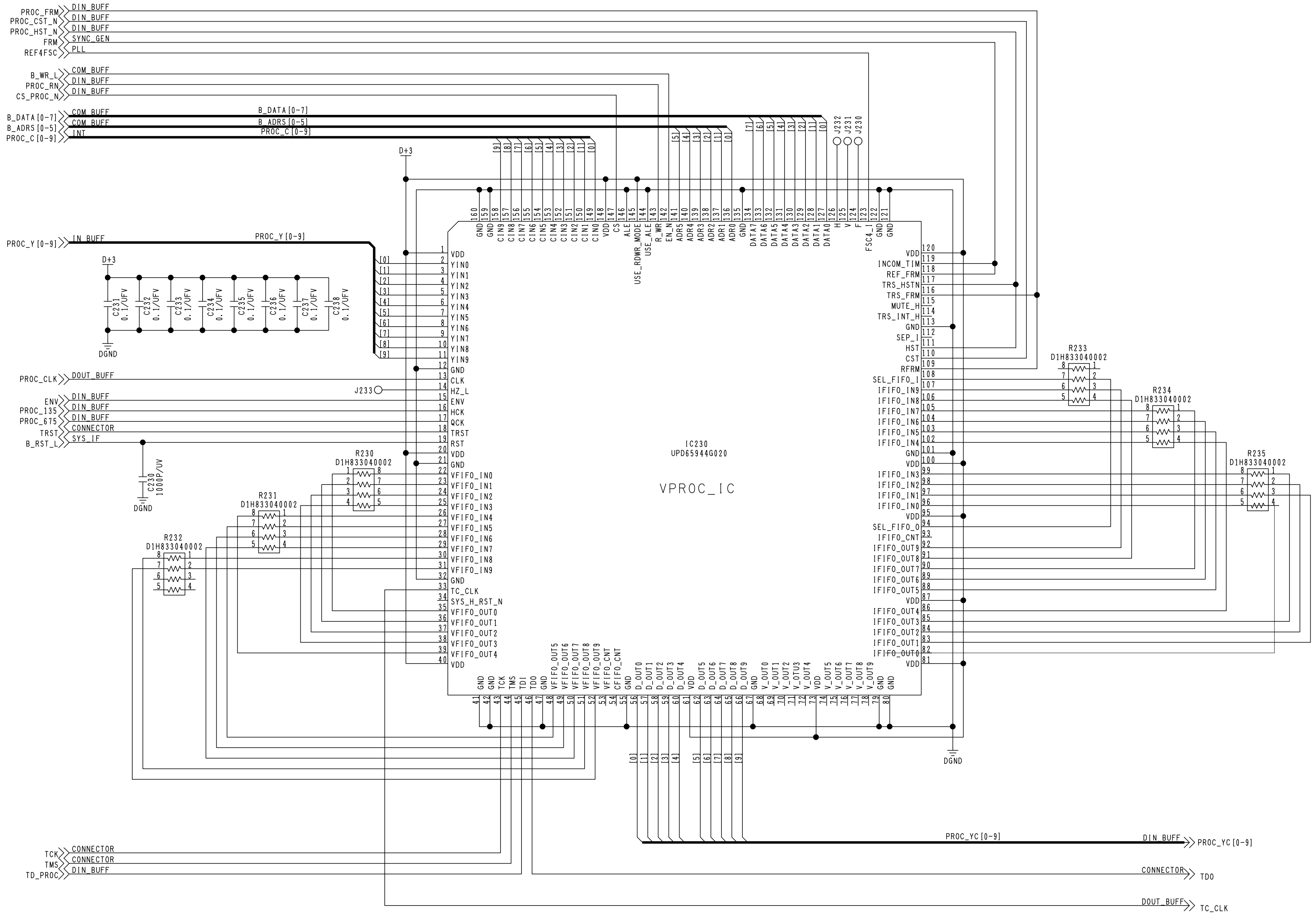
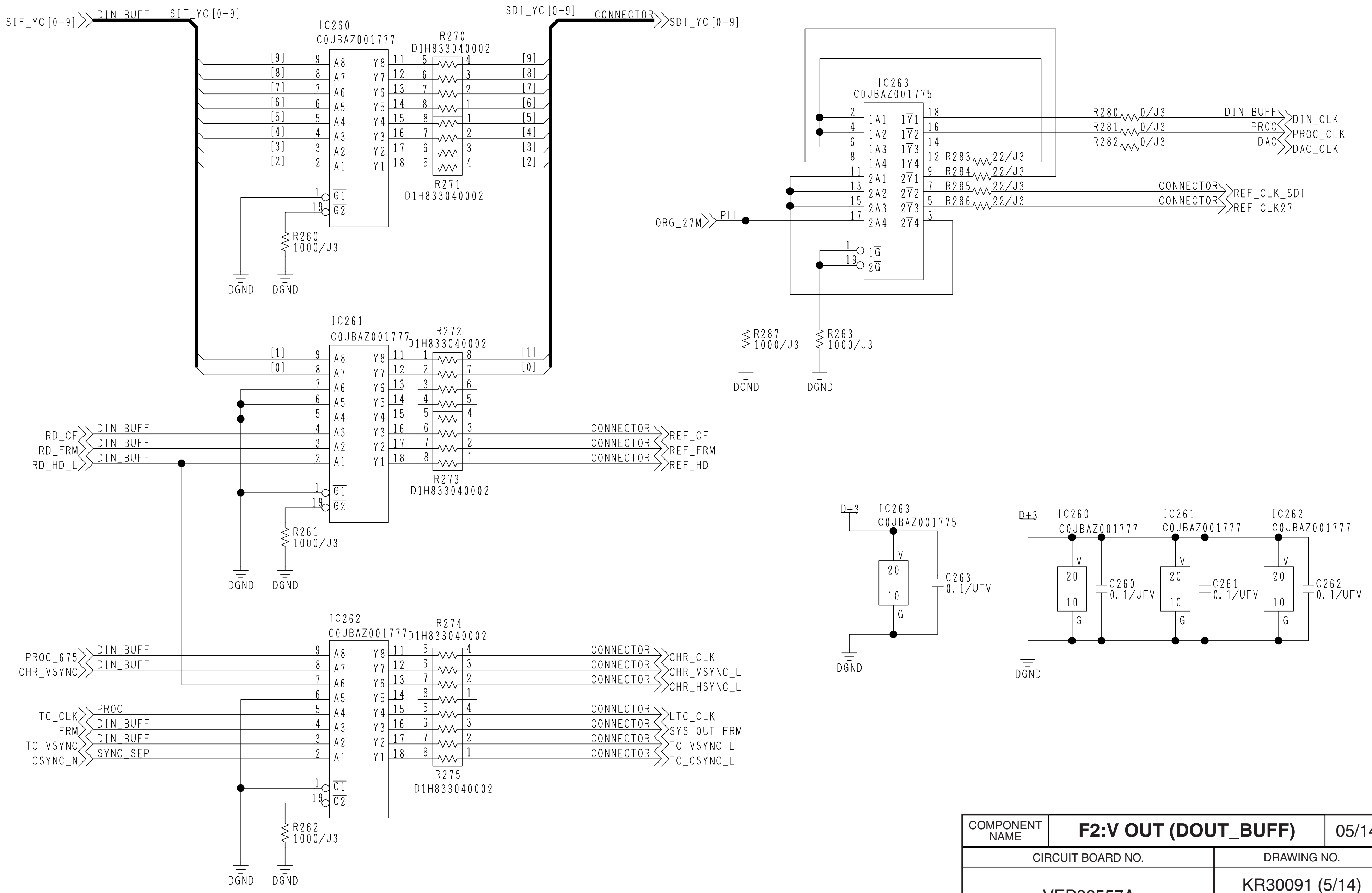
COMPONENT NAME	F2:V OUT (COM_BUFF)	02/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (2/14)	
	SCM011	


EP20K60E208X
IC200
IC203
C0JBAZ001777
IC204
C0JBAZ001777
IC201
XC62FP1802PR
IP202
EPC2TC32
P3
VJP3125D008
QR200
UN5213-TX
R213
10K/J3
R206
D1H81024000I
R207
D1H81024000I
R208
100/J3
R209
10K/J3
R210
10K/J3
R211
1000/J3
R212
1000/J3
R200 PAT/J3
R201 PAT/J3
R202 PAT/J3
R203 0/J3
R204 0/J3
R205 0/J3
C200 0.1/UFV
C201 0.1/UFV
C204 0.1/UFV
C207 0.1/UFV
C202 0.1/UFV
C205 0.1/UFV
C208 0.1/UFV
C210 0.1/UFV
C206 1000P/UV
C203 0.1/UFV
C209 6V47/EHB
C211 0.1/UFV
C212 0.1/UFV
C213 0.1/UFV
C215 0.1/UFV
C217 0.1/UFV
C214 0.1/UFV
C216 0.1/UFV
C218 0.1/UFV
C219 0.1/UFV
C220 0.1/UFV
C221 0.1/UFV
C222 0.1/UFV
TP200
EYF6CU
HR_SC
J206
J205
J203
J202
ID202
D+3
D+5
DGND
B_RD_L
B_WR_L
B_CS_L
COM_BUFF
B_DATA[0-7]
B_ADRS[0-7]
TRST
CONNECTOR
RSY_B
BF_B
SH_B
SYNC_GEN
RSY_A
SDET
SC
INCOM_CF
LAL_PAL
ER1
WND1
LAL_NTSC
ER2
WND2
CF
SYNC_SEP
PLL
FLOAT_RST
VFLOAT_H
SEL_LAL
ERR_B
WND_B
CF_RST
B_RST_L
SYNC_135
RD_CF
RD_FRM
RD_HD_L
CHR_VSYNC
TC_VSYNC
DOUT_BUFF
REF4FSC
FRM
PFB1
PB_FRM
H_SHIFT
PAL_PULSE
OUT_BURST
SCH_ON_H
HR_X
HR_B
INT_HST_N
INT_C_HST_N
INT_L
DOWN_H
INT_135
INT
PB_YC[0-7]
EE_YC[0-7]
TMS
TCK
DAC
ENC_CLK
SYS_SC_COARSE0
SYS_SC_COARSE1
COMPOSIT_BUFF
WIDE_ON_L
DAC_YC_MIX
SYNC_L
SETUP_ON_H
DAC_CF
PP_DATA
DAC_YC[0-9]
PROC
TD_PROC
SIF_YC[0-9]
SDET2
BST
DIN_CLK
TDI
PROC_675
PROC_135
PROC_YC[0-9]
INT_Y[0-7]
THROUGH_L
INT_C[0-7]
THROUGH_H
ENV
CS_PROC_N
PROC_RN
PROC_FRM
PROC_CST_N
PROC_HST_N
VCC
TDO
NC
GND
DCLK
VCCSEL
OE
NCS
NCASC
NINIT_CONF
VPPSEL
VPP
DATA
VCCINT
VCCIO
MSEL0
MSEL1
CLK1P
CLKLK_ENA
NCONFIG
CLK3P
CONF_DONE
NSTATUS
FAST3
FAST4
NCE
NCEO
FAST1
FAST2
VCC_CKLK4
GND_CKLK4
CLKLK_FB2P
CLK4P
DATA0
CLK2P
GND_CKLK2
VCC_CKLK2
I/O7,DEV_OE
VCC_CKOUT2
GND_CKOUT2
CLKLK_OUT2P

COMPONENT NAME	F2:V OUT (DIN_BUFF)	03/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (3/14)	
	SCM012	


PROC_FRM
PROC_CST_N
PROC_HST_N
FRM
REF4FSC
DIN_BUFF
SYNC_GEN
PLL
B_WR_L
PROC_RN
CS_PROC_N
COM_BUFF
B_DATA[0-7]
B_ADRS[0-5]
PROC_C[0-9]
INT
PROC_Y[0-9]
IN_BUFF
D+3
C231 0.1/UFV
C232 0.1/UFV
C233 0.1/UFV
C234 0.1/UFV
C235 0.1/UFV
C236 0.1/UFV
C237 0.1/UFV
C238 0.1/UFV
DGND
PROC_CLK
DOUT_BUFF
J233
ENV
PROC_135
PROC_675
TRST
B_RST_L
CONNECTOR
SYS_IF
C230 1000P/UV
R230 D1H833040002
R231 D1H833040002
R232 D1H833040002
R233 D1H833040002
R234 D1H833040002
R235 D1H833040002
J232
J231
J230
IC230
UPD65944G020
VPROC_IC
VDD
YIN0
YIN1
YIN2
YIN3
YIN4
YIN5
YIN6
YIN7
YIN8
YIN9
GND
CLK
HZ_L
ENV
HCK
QCK
TRST
RST
VFIFO_IN0
VFIFO_IN1
VFIFO_IN2
VFIFO_IN3
VFIFO_IN4
VFIFO_IN5
VFIFO_IN6
VFIFO_IN7
VFIFO_IN8
VFIFO_IN9
TC_CLK
SYS_H_RST_N
VFIFO_OUT0
VFIFO_OUT1
VFIFO_OUT2
VFIFO_OUT3
VFIFO_OUT4
CIN0
CIN1
CIN2
CIN3
CIN4
CIN5
CIN6
CIN7
CIN8
CIN9
CS
ALE
USE_RDWR_MODE
USE_ALE
R_WR
EN_N
ADR0
ADR1
ADR2
ADR3
ADR4
ADR5
DATA0
DATA1
DATA2
DATA3
DATA4
DATA5
DATA6
DATA7
H
V
F
FSC4_I
INCOM_TIM
REF_FRM
TRS_HSTN
TRS_FRM
MUTE_H
TRS_INT_H
SEP_I
HST
CST
RFRM
SEL_FIFO_I
IFIFO_IN0
IFIFO_IN1
IFIFO_IN2
IFIFO_IN3
IFIFO_IN4
IFIFO_IN5
IFIFO_IN6
IFIFO_IN7
IFIFO_IN8
IFIFO_IN9
SEL_FIFO_O
IFIFO_CNT
IFIFO_OUT0
IFIFO_OUT1
IFIFO_OUT2
IFIFO_OUT3
IFIFO_OUT4
IFIFO_OUT5
IFIFO_OUT6
IFIFO_OUT7
IFIFO_OUT8
IFIFO_OUT9
TCK
TMS
TDI
TDO
VFIFO_OUT5
VFIFO_OUT6
VFIFO_OUT7
VFIFO_OUT8
VFIFO_OUT9
VFIFO_CNT
CFIFO_CNT
D_OUT0
D_OUT1
D_OUT2
D_OUT3
D_OUT4
D_OUT5
D_OUT6
D_OUT7
D_OUT8
D_OUT9
V_OUT0
V_OUT1
V_OUT2
V_OTU3
V_OUT4
V_OUT5
V_OUT6
V_OUT7
V_OUT8
V_OUT9
PROC_YC[0-9]
TD_PROC
TDO
TC_CLK

COMPONENT NAME	F2:V OUT (PROC)	04/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (4/14)	
	SCM013	


SIF_YC[0-9]
DIN_BUFF
SIF_YC[0-9]
SDI_YC[0-9]
CONNECTOR
SDI_YC[0-9]
IC260
C0JBAZ001777
R270
D1H833040002
R271
D1H833040002
[9]
[8]
[7]
[6]
[5]
[4]
[3]
[2]
A8
A7
A6
A5
A4
A3
A2
A1
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G1
G2
R260
1000/J3
DGND
DGND
IC261
C0JBAZ001777
R272
D1H833040002
[1]
[0]
R273
D1H833040002
RD_CF
RD_FRM
RD_HD_L
DIN_BUFF
DIN_BUFF
DIN_BUFF
CONNECTOR
CONNECTOR
CONNECTOR
REF_CF
REF_FRM
REF_HD
R261
1000/J3
DGND
DGND
IC262
C0JBAZ001777
R274
D1H833040002
PROC_675
CHR_VSYNC
DIN_BUFF
DIN_BUFF
CONNECTOR
CONNECTOR
CONNECTOR
CHR_CLK
CHR_VSYNC_L
CHR_HSYNC_L
TC_CLK
FRM
TC_VSYNC
CSYNC_N
PROC
DIN_BUFF
DIN_BUFF
SYNC_SEP
CONNECTOR
CONNECTOR
CONNECTOR
CONNECTOR
LTC_CLK
SYS_OUT_FRM
TC_VSYNC_L
TC_CSYNC_L
R275
D1H833040002
R262
1000/J3
DGND
DGND
IC263
C0JBAZ001775
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
1G
2G
R280 0/J3
R281 0/J3
R282 0/J3
R283 22/J3
R284 22/J3
R285 22/J3
R286 22/J3
DIN_BUFF
PROC
DAC
DIN_CLK
PROC_CLK
DAC_CLK
CONNECTOR
CONNECTOR
REF_CLK_SDI
REF_CLK27
ORG_27M
PLL
R287
1000/J3
R263
1000/J3
DGND
DGND
D+3
IC263
C0JBAZ001775
V
20
10
G
C263
0.1/UFV
DGND
D+3
IC260
C0JBAZ001777
IC261
C0JBAZ001777
IC262
C0JBAZ001777
C260
0.1/UFV
C261
0.1/UFV
C262
0.1/UFV
DGND
A
B
C
D
E
F
G
H
I
J
1
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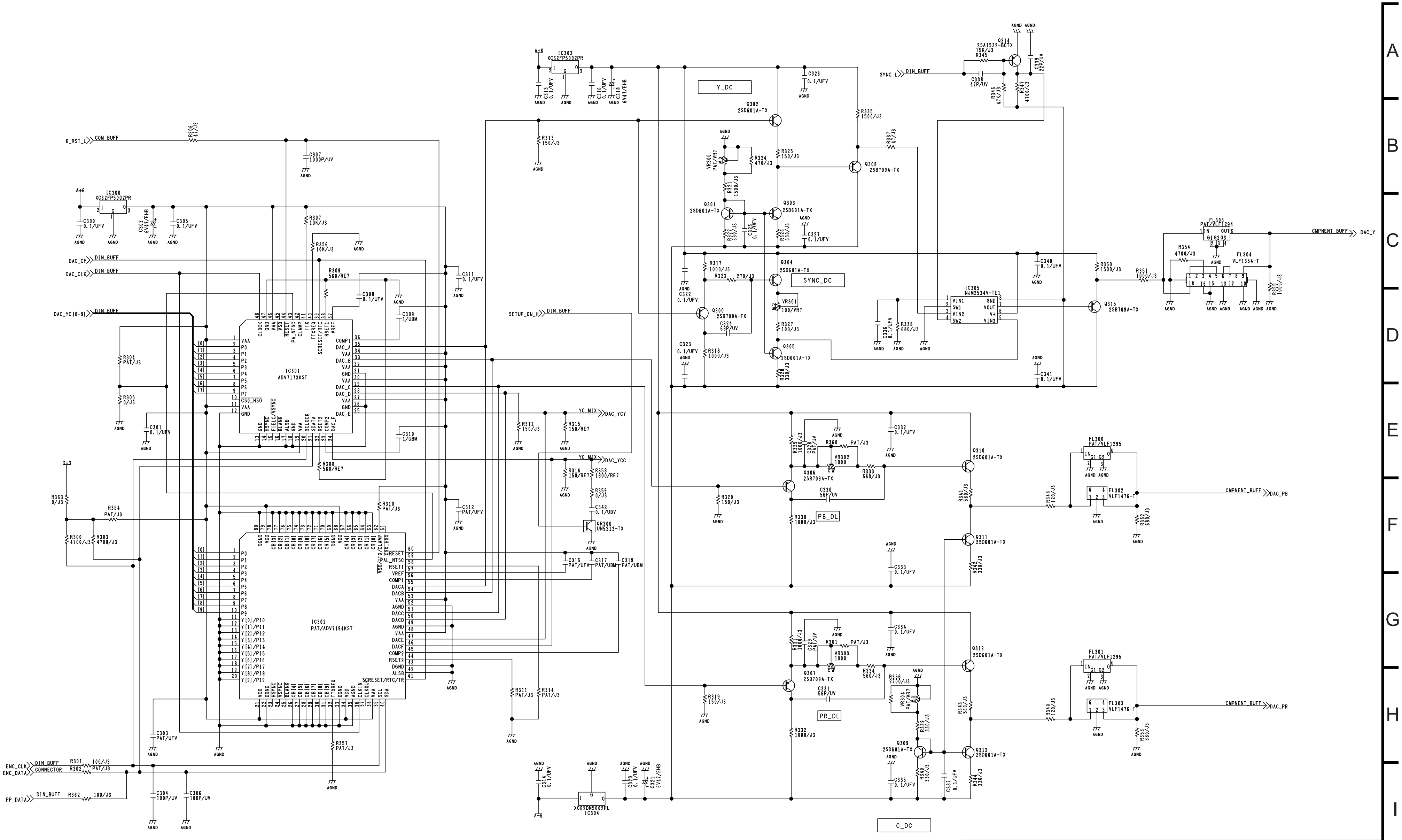
COMPONENT NAME	F2:V OUT (DOUT_BUFF)	05/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (5/14)	
	SCM014	


B_RST_L
COM_BUFF
DAC_CF
DAC_CLK
DIN_BUFF
DAC_YC[0-9]
ENC_CLK
ENC_DATA
CONNECTOR
PP_DATA
IC300 XC62FP5002PR
IC301 ADV7173KST
IC302 PAT/ADV7194KST
IC303 XC62FP5002PR
IC304 XC62DN5002PL
IC305 NJM2534V-TE1
SETUP_ON_H
YC_MIX
DAC_YCY
DAC_YCC
QR300 UN5213-TX
Y_DC
SYNC_DC
PB_DL
PR_DL
C_DC
SYNC_L
Q314 2SA1532-BCTX
Q302 2SD601A-TX
Q308 2SB709A-TX
Q315 2SB709A-TX
FL305 PAT/VLF1294
FL304 VLF1354-T
FL300 PAT/VLF1295
FL302 VLF1476-T
FL301 PAT/VLF1295
FL303 VLF1476-T
CMPNENT_BUFF
DAC_Y
DAC_PB
DAC_PR
AGND
A+5
D+3
A-5

A
B
C
D
E
F
G
H
I
J
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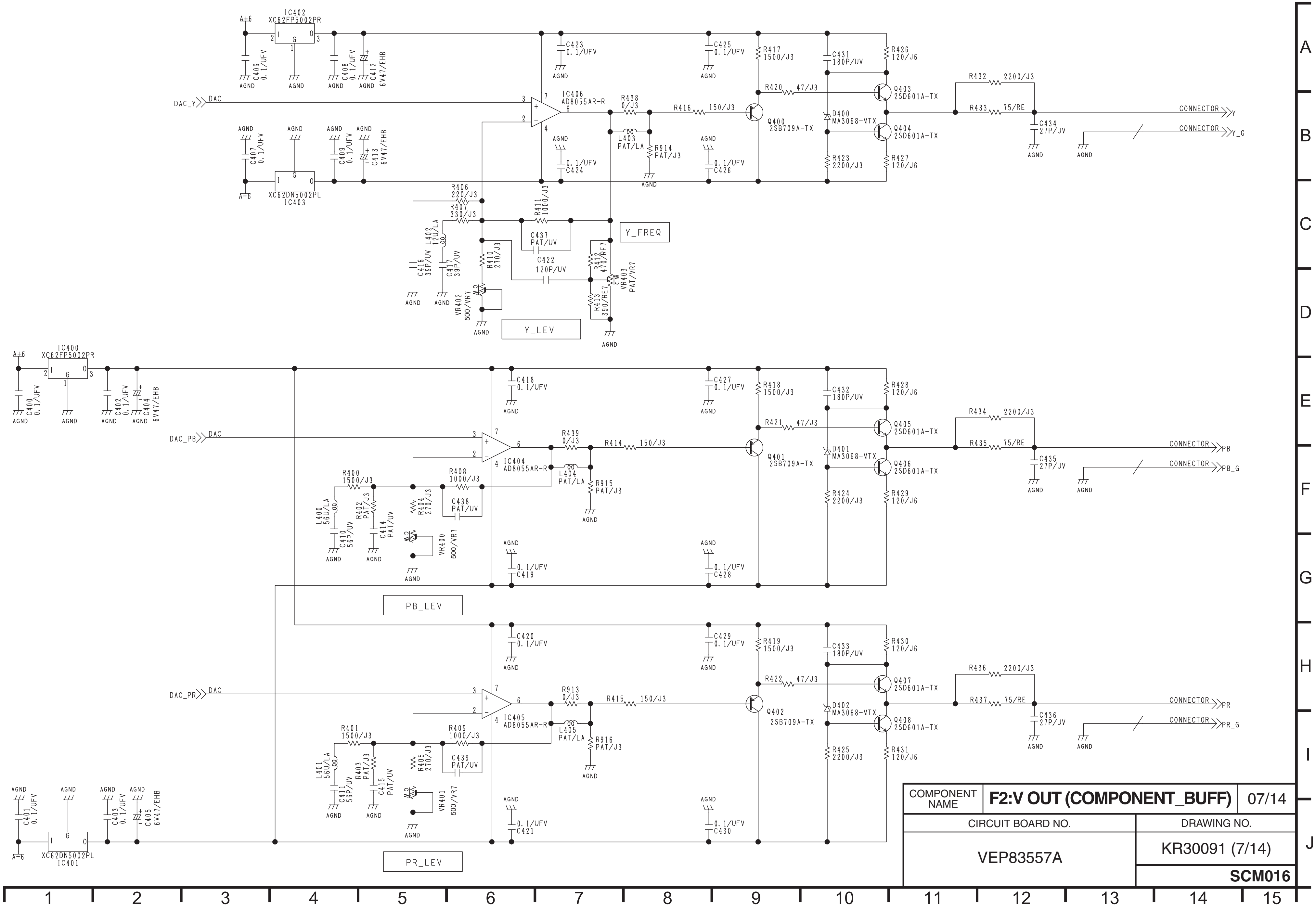
COMPONENT NAME	F2:V OUT (DAC)	06/14

CIRCUIT BOARD NO.	DRAWING NO.
VEP83557A	KR30091 (6/14)
	SCM015


A+6
IC402
XC62FP5002PR
C406 0.1/UFV
C408 0.1/UFV
C412 6V47/EHB
AGND
DAC_Y
DAC
IC406
AD8055AR-R
C423 0.1/UFV
R438 0/J3
R416 150/J3
Q400 2SB709A-TX
C425 0.1/UFV
R417 1500/J3
R420 47/J3
C431 180P/UV
D400 MA3068-MTX
R426 120/J6
Q403 2SD601A-TX
Q404 2SD601A-TX
R423 2200/J3
R427 120/J6
R432 2200/J3
R433 75/RE
C434 27P/UV
CONNECTOR Y
CONNECTOR Y_G
C407 0.1/UFV
C409 0.1/UFV
C413 6V47/EHB
A-6
XC62DN5002PL
IC403
C424 0.1/UFV
L403 PAT/LA
R914 PAT/J3
C426 0.1/UFV
R406 220/J3
R407 330/J3
R411 1000/J3
L402 12U/LA
C416 39P/UV
C417 39P/UV
C437 PAT/UV
Y_FREQ
R410 270/J3
C422 120P/UV
R412 470/RE7
VR403 PAT/VR7
R413 390/RE7
VR402 500/VR7
Y_LEV
IC400
XC62FP5002PR
C400 0.1/UFV
C402 0.1/UFV
C404 6V47/EHB
DAC_PB
IC404 AD8055AR-R
C418 0.1/UFV
R439 0/J3
R414 150/J3
L404 PAT/LA
R915 PAT/J3
Q401 2SB709A-TX
C427 0.1/UFV
R418 1500/J3
R421 47/J3
C432 180P/UV
D401 MA3068-MTX
R428 120/J6
Q405 2SD601A-TX
Q406 2SD601A-TX
R424 2200/J3
R429 120/J6
R434 2200/J3
R435 75/RE
C435 27P/UV
CONNECTOR PB
CONNECTOR PB_G
R400 1500/J3
R408 1000/J3
L400 56U/LA
R402 PAT/J3
R404 270/J3
C438 PAT/UV
C410 56P/UV
C414 PAT/UV
VR400 500/VR7
C419 0.1/UFV
C428 0.1/UFV
PB_LEV
C420 0.1/UFV
C429 0.1/UFV
R419 1500/J3
C433 180P/UV
R430 120/J6
DAC_PR
IC405 AD8055AR-R
R913 0/J3
R415 150/J3
Q402 2SB709A-TX
R422 47/J3
Q407 2SD601A-TX
D402 MA3068-MTX
Q408 2SD601A-TX
R436 2200/J3
R437 75/RE
C436 27P/UV
CONNECTOR PR
CONNECTOR PR_G
R401 1500/J3
R409 1000/J3
L405 PAT/LA
R916 PAT/J3
L401 56U/LA
R403 PAT/J3
R405 270/J3
C439 PAT/UV
C411 56P/UV
C415 PAT/UV
VR401 500/VR7
R425 2200/J3
R431 120/J6
C401 0.1/UFV
C403 0.1/UFV
C405 6V47/EHB
XC62DN5002PL
IC401
C421 0.1/UFV
C430 0.1/UFV
PR_LEV
A
B
C
D
E
F
G
H
I
J
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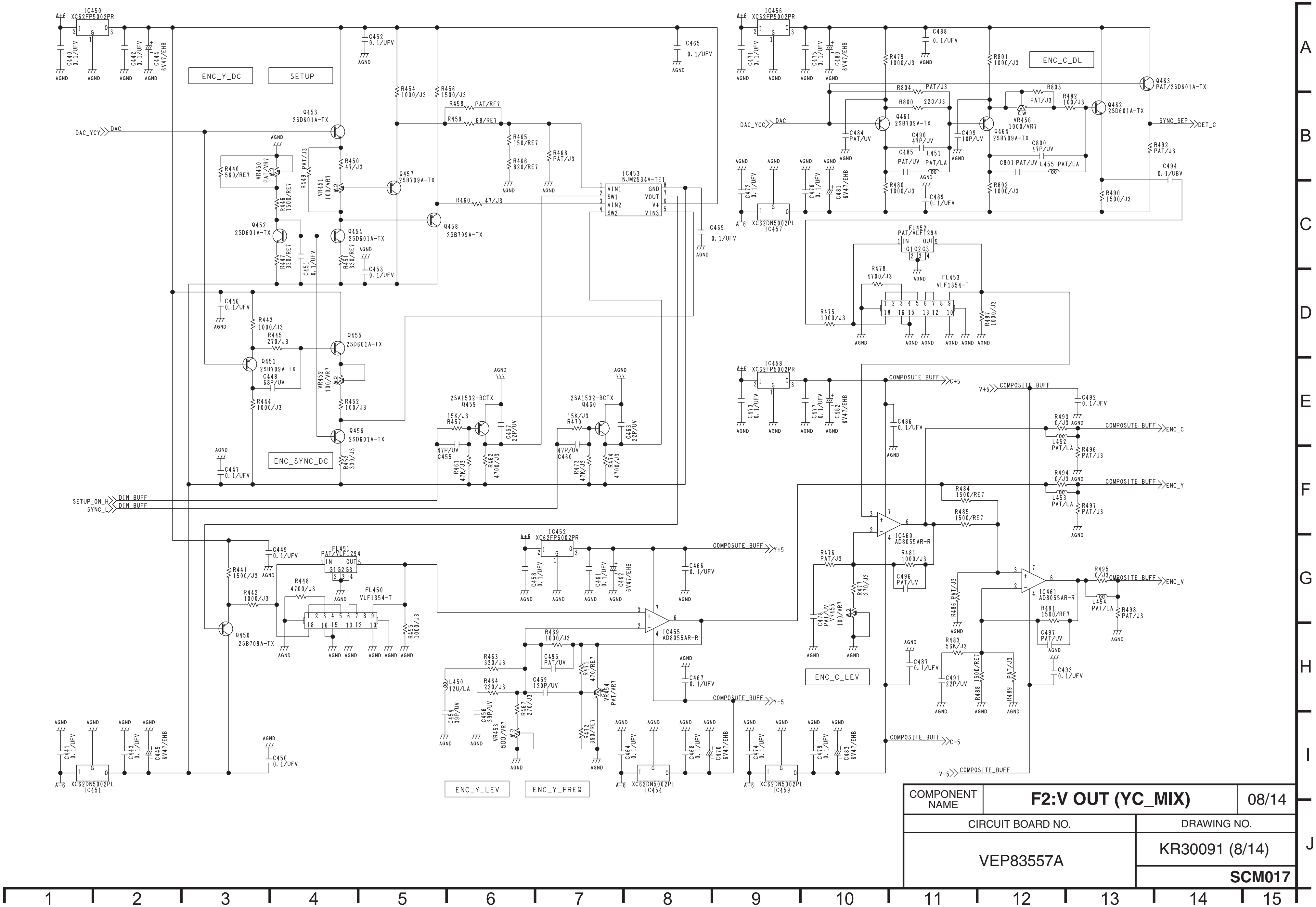
COMPONENT NAME	F2:V OUT (COMPONENT_BUFF)	07/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (7/14)	
	SCM016	


A
B
C
D
E
F
G
H
I
J
1
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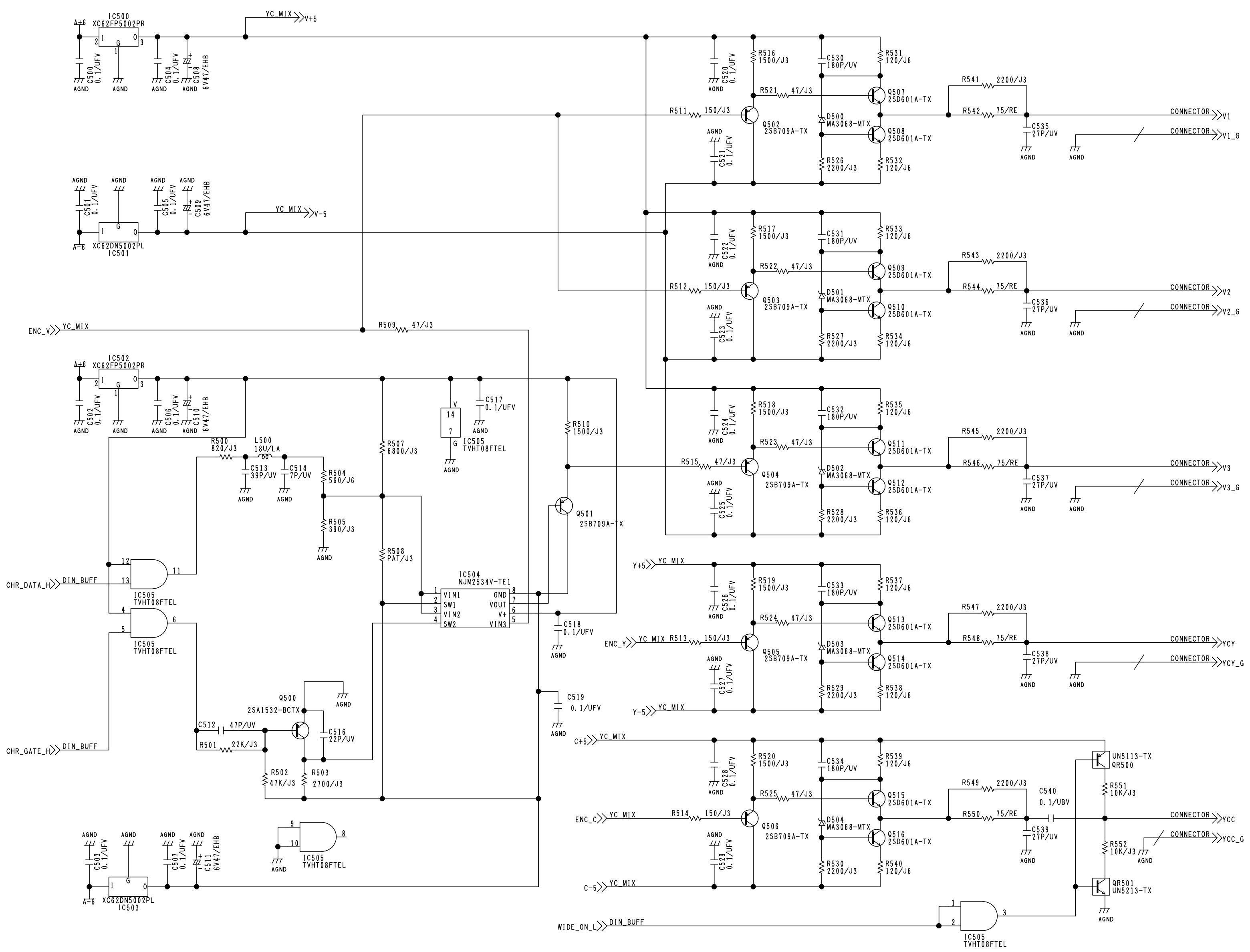
11
12
13
14
15
IC450 XC62FP5002PR
A+6
C440 0.1/UFV
C442 0.1/UFV
C444 6V47/EHB
AGND
ENC_Y_DC
SETUP
C452 0.1/UFV
C465 0.1/UFV
R454 1000/J3
R456 1500/J3
R458 PAT/RE7
R459 68/RE7
R465 150/RE7
R466 820/RE7
R468 PAT/J3
Q453 2SD601A-TX
DAC_YCY
DAC
R440 560/RE7
VR450 PAT/VR7
R449 PAT/J3
VR451 100/VR7
R450 47/J3
Q457 2SB709A-TX
R446 1500/RE7
R460 47/J3
IC453 NJM2534V-TE1
VIN1
SW1
VIN2
SW2
GND
VOUT
V+
VIN3
Q452 2SD601A-TX
Q454 2SD601A-TX
Q458 2SB709A-TX
C469 0.1/UFV
R447 330/RE7
C451 0.1/UFV
R451 330/RE7
C453 0.1/UFV
C446 0.1/UFV
R443 1000/J3
R445 270/J3
Q455 2SD601A-TX
Q451 2SB709A-TX
C448 68P/UV
VR452 100/VR7
R444 1000/J3
R452 100/J3
2SA1532-BCTX Q459
15K/J3 R457
C457 22P/UV
47P/UV C455
R461 47K/J3
R462 4700/J3
2SA1532-BCTX Q460
15K/J3 R470
C463 22P/UV
47P/UV C460
R473 47K/J3
R474 4700/J3
Q456 2SD601A-TX
R453 330/J3
ENC_SYNC_DC
C447 0.1/UFV
SETUP_ON_H
SYNC_L
DIN_BUFF
C449 0.1/UFV
R441 1500/J3
R442 1000/J3
Q450 2SB709A-TX
FL451 PAT/VLF1294
IN OUT
G1 G2 G3
R448 4700/J3
FL450 VLF1354-T
R455 1000/J3
IC452 XC62FP5002PR
C458 0.1/UFV
C461 0.1/UFV
C462 6V47/EHB
COMPOSUTE_BUFF
Y+5
C466 0.1/UFV
IC455 AD8055AR-R
R469 1000/J3
C495 PAT/UV
R463 330/J3
L450 12U/LA
R464 220/J3
C459 120P/UV
R471 470/RE7
VR454 PAT/VR7
C454 39P/UV
C456 39P/UV
VR453 500/VR7
R467 270/J3
R472 390/RE7
C467 0.1/UFV
COMPOSUTE_BUFF
Y-5
C441 0.1/UFV
C443 0.1/UFV
C445 6V47/EHB
C450 0.1/UFV
XC62DN5002PL IC451
A-6
C464 0.1/UFV
C468 0.1/UFV
C470 6V47/EHB
XC62DN5002PL IC454
C474 0.1/UFV
C479 0.1/UFV
C483 6V47/EHB
XC62DN5002PL IC459
ENC_Y_LEV
ENC_Y_FREQ
IC456 XC62FP5002PR
C471 0.1/UFV
C475 0.1/UFV
C480 6V47/EHB
C488 0.1/UFV
R479 1000/J3
R801 1000/J3
ENC_C_DL
Q463 PAT/2SD601A-TX
R804 PAT/J3
R803
R800 220/J3
R482 100/J3
VR456 1000/VR7
Q462 2SD601A-TX
DAC_YCC
Q461 2SB709A-TX
Q464 2SB709A-TX
C484 PAT/UV
C490 47P/UV
C499 10P/UV
C800 47P/UV
SYNC_SEP
DET_C
C485 PAT/UV
L451 PAT/LA
C801 PAT/UV
L455 PAT/LA
R492 PAT/J3
C494 0.1/UBV
C472 0.1/UFV
C476 0.1/UFV
C481 6V47/EHB
R480 1000/J3
C489 0.1/UFV
R802 1000/J3
R490 1500/J3
XC62DN5002PL IC457
FL452 PAT/VLF1294
R478 4700/J3
FL453 VLF1354-T
R475 1000/J3
R487 1000/J3
IC458 XC62FP5002PR
C473 0.1/UFV
C477 0.1/UFV
C482 6V47/EHB
COMPOSUTE_BUFF
C+5
V+5
COMPOSITE_BUFF
C492 0.1/UFV
C486 0.1/UFV
R493 0/J3
COMPOSITE_BUFF
ENC_C
L452 PAT/LA
R496 PAT/J3
R494 0/J3
ENC_Y
L453 PAT/LA
R497 PAT/J3
R484 1500/RE7
R485 1500/RE7
IC460 AD8055AR-R
R476 PAT/J3
R481 1000/J3
C496 PAT/UV
R477 270/J3
C478 PAT/UV
VR455 100/VR7
R486 PAT/J3
IC461 AD8055AR-R
R495 0/J3
ENC_V
L454 PAT/LA
R498 PAT/J3
R491 1500/RE7
C497 PAT/UV
R483 56K/J3
C487 0.1/UFV
C491 22P/UV
R488 1500/RE7
R489 PAT/J3
C493 0.1/UFV
ENC_C_LEV
COMPOSITE_BUFF
C-5
V-5

COMPONENT NAME	F2:V OUT (YC_MIX)	08/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (8/14)	
	SCM017	


IC500
XC62FP5002PR
A+6
C500 0.1/UFV
C504 0.1/UFV
C508 6V47/EHB
AGND
YC_MIX
V+5
C501 0.1/UFV
C505 0.1/UFV
C509 6V47/EHB
XC62DN5002PL
IC501
A-6
V-5
ENC_V
R509 47/J3
IC502
XC62FP5002PR
C502 0.1/UFV
C506 0.1/UFV
C510 6V47/EHB
R500 820/J3
L500 18U/LA
C513 39P/UV
C514 7P/UV
R504 560/J6
R505 390/J3
R507 6800/J3
R508 PAT/J3
C517 0.1/UFV
IC505 TVHT08FTEL
R510 1500/J3
Q501 2SB709A-TX
IC504 NJM2534V-TE1
VIN1
SW1
VIN2
SW2
GND
VOUT
V+
VIN3
C518 0.1/UFV
C519 0.1/UFV
CHR_DATA_H
DIN_BUFF
CHR_GATE_H
Q500 2SA1532-BCTX
C512 47P/UV
R501 22K/J3
C516 22P/UV
R502 47K/J3
R503 2700/J3
C503 0.1/UFV
C507 0.1/UFV
C511 6V47/EHB
XC62DN5002PL
IC503
R511 150/J3
R512 150/J3
R515 47/J3
R513 150/J3
R514 150/J3
Q502 2SB709A-TX
Q503 2SB709A-TX
Q504 2SB709A-TX
Q505 2SB709A-TX
Q506 2SB709A-TX
C520 0.1/UFV
C521 0.1/UFV
C522 0.1/UFV
C523 0.1/UFV
C524 0.1/UFV
C525 0.1/UFV
C526 0.1/UFV
C527 0.1/UFV
C528 0.1/UFV
C529 0.1/UFV
R516 1500/J3
R517 1500/J3
R518 1500/J3
R519 1500/J3
R520 1500/J3
R521 47/J3
R522 47/J3
R523 47/J3
R524 47/J3
R525 47/J3
R526 2200/J3
R527 2200/J3
R528 2200/J3
R529 2200/J3
R530 2200/J3
C530 180P/UV
C531 180P/UV
C532 180P/UV
C533 180P/UV
C534 180P/UV
D500 MA3068-MTX
D501 MA3068-MTX
D502 MA3068-MTX
D503 MA3068-MTX
D504 MA3068-MTX
R531 120/J6
R532 120/J6
R533 120/J6
R534 120/J6
R535 120/J6
R536 120/J6
R537 120/J6
R538 120/J6
R539 120/J6
R540 120/J6
Q507 2SD601A-TX
Q508 2SD601A-TX
Q509 2SD601A-TX
Q510 2SD601A-TX
Q511 2SD601A-TX
Q512 2SD601A-TX
Q513 2SD601A-TX
Q514 2SD601A-TX
Q515 2SD601A-TX
Q516 2SD601A-TX
R541 2200/J3
R542 75/RE
R543 2200/J3
R544 75/RE
R545 2200/J3
R546 75/RE
R547 2200/J3
R548 75/RE
R549 2200/J3
R550 75/RE
C535 27P/UV
C536 27P/UV
C537 27P/UV
C538 27P/UV
C539 27P/UV
C540 0.1/UBV
CONNECTOR
V1
V1_G
V2
V2_G
V3
V3_G
YCY
YCY_G
YCC
YCC_G
Y+5
Y-5
ENC_Y
C+5
C-5
ENC_C
UN5113-TX QR500
R551 10K/J3
R552 10K/J3
QR501 UN5213-TX
WIDE_ON_L
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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12
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14
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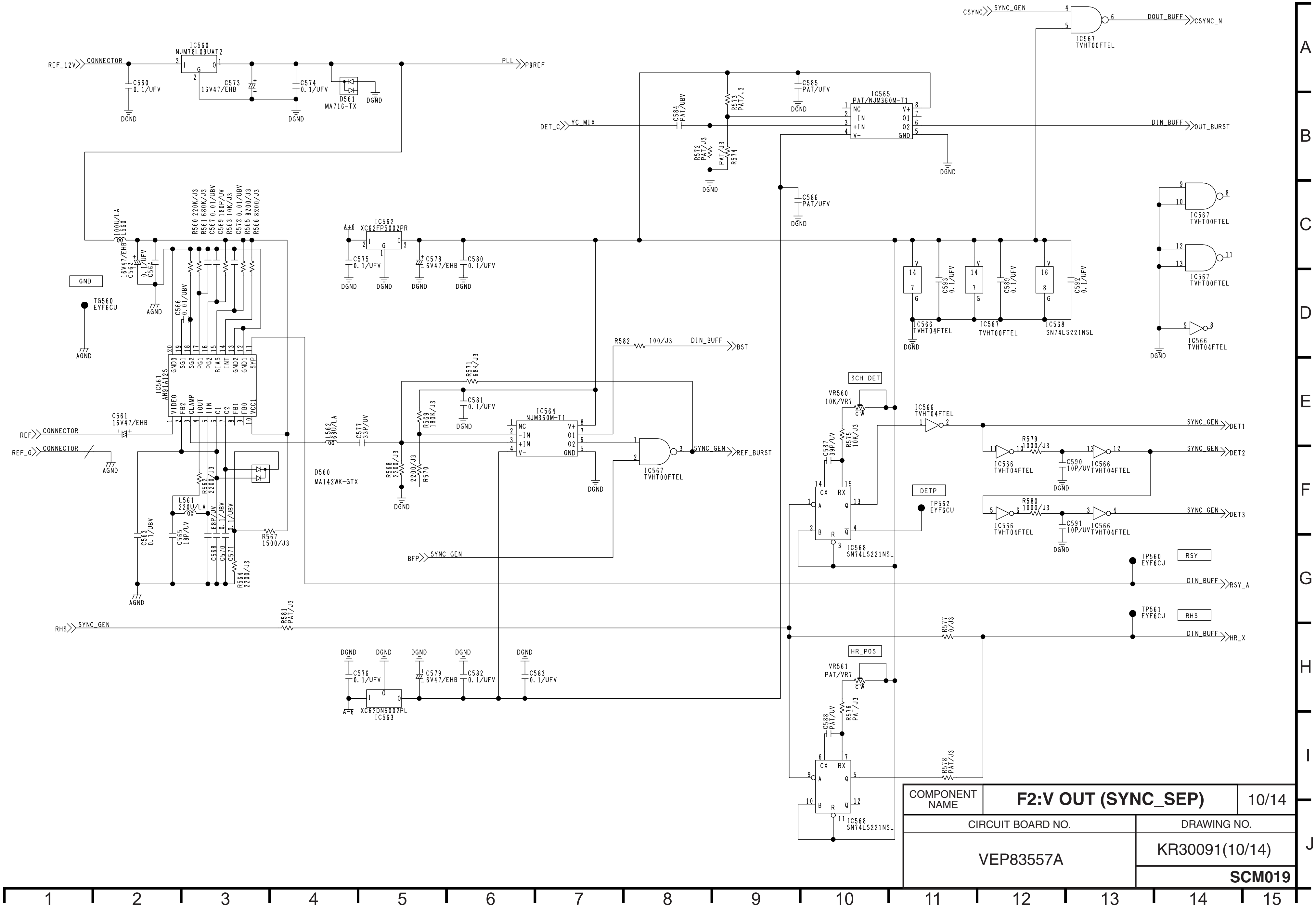
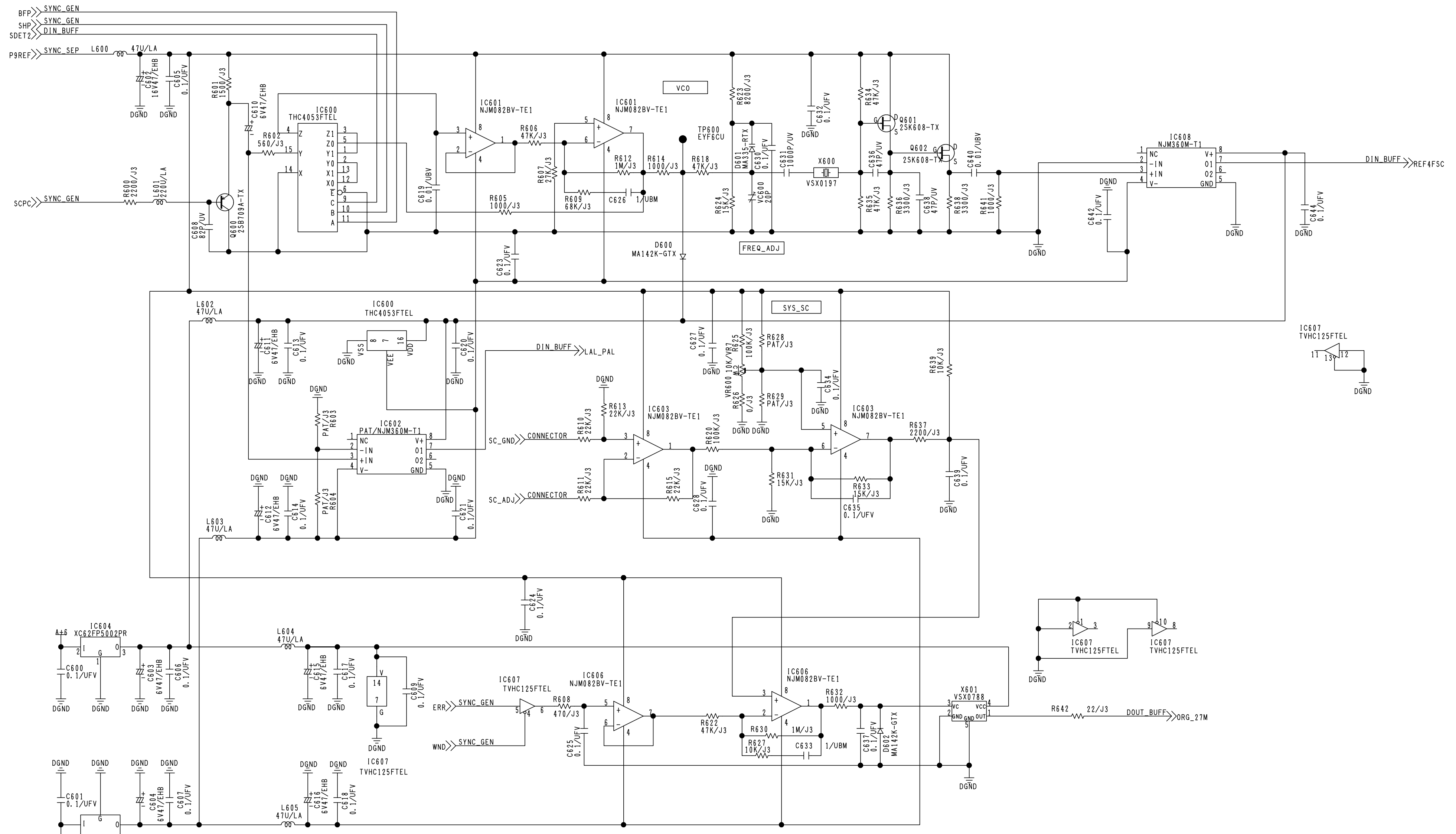
COMPONENT NAME	F2:V OUT (COMPOSITE_BUFF)	09/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (9/14)	
	SCM018	


REF_12V
CONNECTOR
IC560
NJM78L09UAT2
C560
0.1/UFV
C573
16V47/EHB
C574
0.1/UFV
D561
MA716-TX
DGND
PLL
P9REF
CSYNC
SYNC_GEN
IC567
TVHT00FTEL
DOUT_BUFF
CSYNC_N
C585
PAT/UFV
C584
PAT/UBV
R573
PAT/J3
IC565
PAT/NJM360M-T1
NC
-IN
+IN
V-
V+
O1
O2
GND
DET_C
YC_MIX
R572
PAT/J3
R574
DIN_BUFF
OUT_BURST
C586
PAT/UFV
L560
100U/LA
C562
16V47/EHB
C564
0.1/UFV
R560 220K/J3
R561 680K/J3
C567 0.01/UBV
C569 18P/UV
R563 10K/J3
C572 0.01/UBV
R565 8200/J3
R566 8200/J3
IC562
XC62FP5002PR
C575
0.1/UFV
C578
6V47/EHB
C580
0.1/UFV
GND
TG560
EYF6CU
AGND
C566
0.01/UBV
IC561
AN91A12S
GND3 SG1 SG2 PG1 PG2 BIAS INT GND2 GND1 SYP
VIDEO FB2 CLAMP IOUT IIN C1 C2 FB1 FB0 VCC1
C593
0.1/UFV
C589
0.1/UFV
C592
0.1/UFV
IC566
TVHT04FTEL
IC568
SN74LS221NSL
R582
100/J3
DIN_BUFF
BST
R571
68K/J3
C581
0.1/UFV
R569
180K/J3
IC564
NJM360M-T1
SYNC_GEN
REF_BURST
SCH DET
VR560
10K/VR7
CW
C587
39P/UV
R575
10K/J3
C561
16V47/EHB
REF
REF_G
L562
68U/LA
C577
33P/UV
D560
MA142WK-GTX
R568
2200/J3
R570
2200/J3
R562
2200/J3
L561
220U/LA
C563
0.1/UBV
C565
18P/UV
C568
68P/UV
C570
0.1/UBV
C571
0.1/UBV
R567
1500/J3
R564
2200/J3
BFP
R579
1000/J3
C590
10P/UV
DET1
DET2
DETP
TP562
EYF6CU
CX RX A B R Q
R580
1000/J3
C591
10P/UV
DET3
TP560
EYF6CU
RSY
RSY_A
RHS
R581
PAT/J3
TP561
RHS
R577
0/J3
HR_X
HR_POS
VR561
PAT/VR7
C576
0.1/UFV
C579
6V47/EHB
C582
0.1/UFV
C583
0.1/UFV
XC62DN5002PL
IC563
A+6
A-6
C588
PAT/UV
R576
PAT/J3
R578
PAT/J3
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	F2:V OUT (SYNC_SEP)	10/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091(10/14)	
	SCM019	


BFP SYNC_GEN
SHP SYNC_GEN
SDET2 DIN_BUFF
P9REF SYNC_SEP
L600 47U/LA
C602 16V47/EHB
C605 0.1/UFV
R601 1500/J3
C610 6V47/EHB
IC600 THC4053FTEL
R602 560/J3
SCPC SYNC_GEN
R600 2200/J3
L601 2200U/LA
Q600 2SB709A-TX
C608 82P/UV
IC601 NJM082BV-TE1
R606 47K/J3
C619 0.01/UBV
R605 1000/J3
R607 27K/J3
R609 68K/J3
C626 1/UBM
R612 1M/J3
R614 1000/J3
C623 0.1/UFV
VCO
TP600 EYF6CU
R618 47K/J3
D600 MA142K-GTX
R623 8200/J3
R624 15K/J3
D601 MA335-RTX
C630 0.1/UFV
VC600 20P
FREQ_ADJ
C631 1000P/UV
X600 VSX0197
C632 0.1/UFV
R634 47K/J3
Q601 2SK608-TX
Q602 2SK608-TX
C636 47P/UV
R635 47K/J3
R636 3300/J3
C638 47P/UV
R638 3300/J3
C640 0.01/UBV
R641 1000/J3
IC608 NJM360M-T1
C642 0.1/UFV
C644 0.1/UFV
DIN_BUFF REF4FSC
DGND
L602 47U/LA
IC600 THC4053FTEL
C611 6V47/EHB
C613 0.1/UFV
C620 0.1/UFV
DIN_BUFF LAL_PAL
SYS_SC
C627 0.1/UFV
VR600 10K/VR7
R625 100K/J3
R628 PAT/J3
R626 0/J3
R629 PAT/J3
C634 0.1/UFV
R639 10K/J3
IC607 TVHC125FTEL
R603 PAT/J3
IC602 PAT/NJM360M-T1
R604 PAT/J3
C612 6V47/EHB
C614 0.1/UFV
C621 0.1/UFV
L603 47U/LA
R613 22K/J3
IC603 NJM082BV-TE1
SC_GND CONNECTOR
R610 22K/J3
SC_ADJ CONNECTOR
R611 22K/J3
R615 22K/J3
R620 100K/J3
C628 0.1/UFV
R631 15K/J3
R637 2200/J3
R633 15K/J3
C635 0.1/UFV
C639 0.1/UFV
C624 0.1/UFV
A+6
IC604 XC62FP5002PR
C600 0.1/UFV
C603 6V47/EHB
C606 0.1/UFV
L604 47U/LA
C615 6V47/EHB
C617 0.1/UFV
C609 0.1/UFV
IC607 TVHC125FTEL
ERR SYNC_GEN
WND SYNC_GEN
R608 470/J3
IC606 NJM082BV-TE1
C625 0.1/UFV
R622 47K/J3
R630 1M/J3
R627 10K/J3
C633 1/UBM
R632 1000/J3
C637 0.1/UFV
D602 MA142K-GTX
X601 VSX0788
R642 22/J3
DOUT_BUFF ORG_27M
C601 0.1/UFV
C604 6V47/EHB
C607 0.1/UFV
A-6
XC62DN5002PL IC605
L605 47U/LA
C616 6V47/EHB
C618 0.1/UFV
A
B
C
D
E
F
G
H
I
J
1
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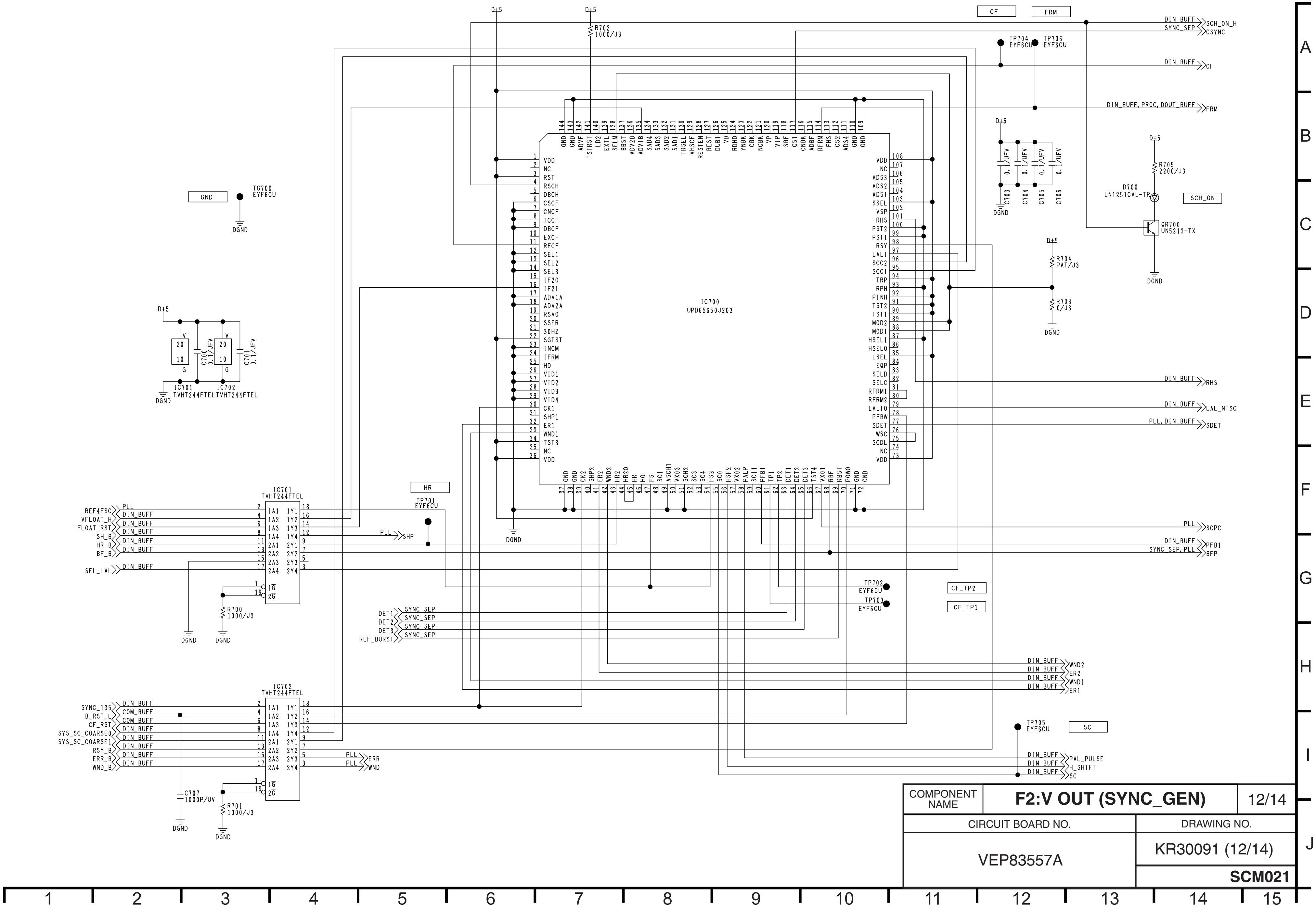
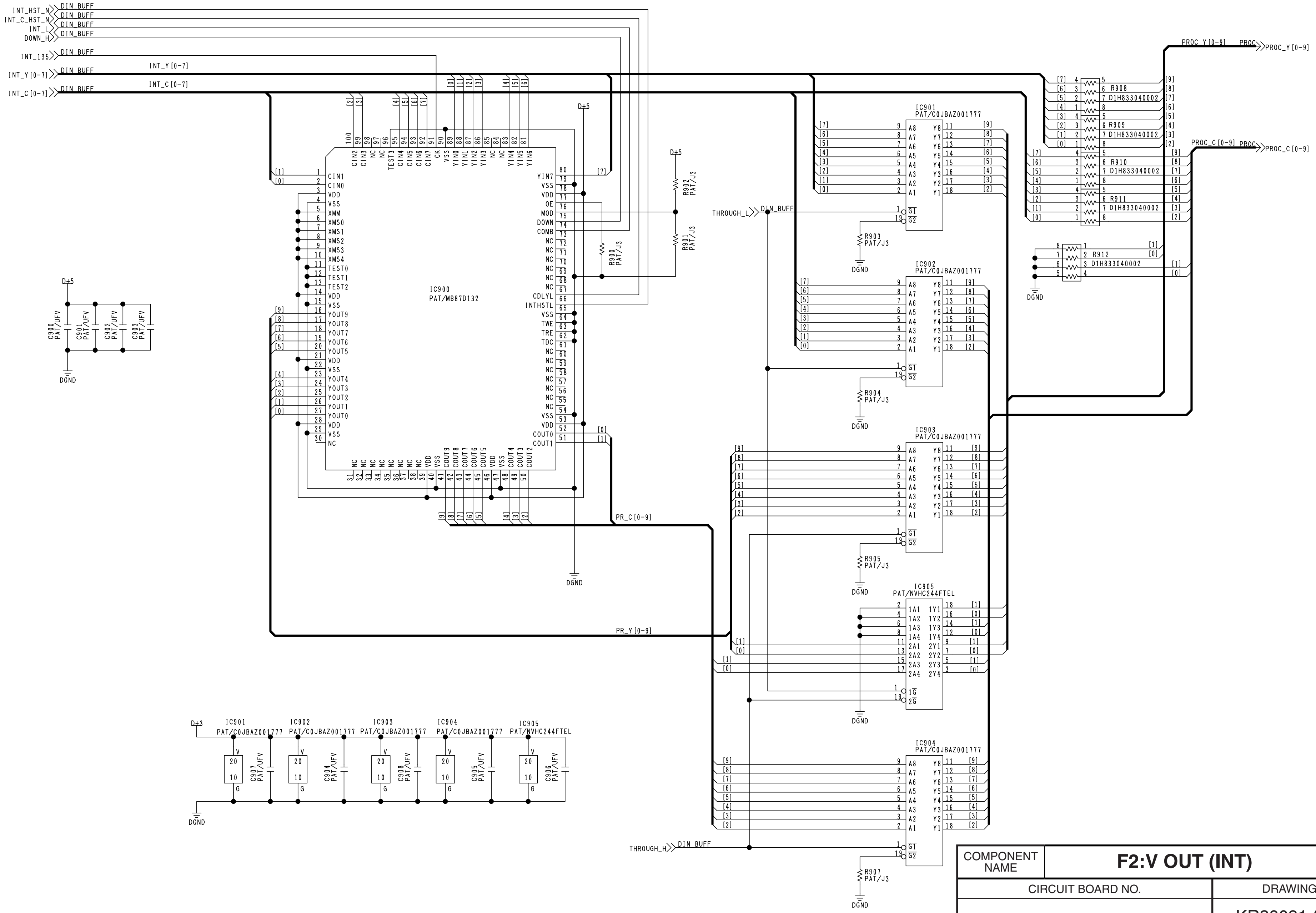
COMPONENT NAME	**F2:V OUT (PLL)**	11/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (11/14)	
	SCM020	


IC700
UPD65650J203
IC701
TVHT244FTEL
IC702
TVHT244FTEL
TG700
EYF6CU
GND
DGND
D+5
R702
1000/J3
R700
1000/J3
R701
1000/J3
C700
0.1/UFV
C701
0.1/UFV
C703
C704
C705
C706
0.1/UFV
C707
1000P/UV
TP701
TP702
TP703
TP704
TP705
TP706
EYF6CU
R703
0/J3
R704
PAT/J3
R705
2200/J3
D700
LN1251CAL-TR
QR700
UN5213-TX
CF
FRM
HR
SC
SCH_ON
CF_TP2
CF_TP1
DIN_BUFF
SCH_ON_H
SYNC_SEP
CSYNC
DIN_BUFF, PROC, DOUT_BUFF
RHS
LAL_NTSC
PLL, DIN_BUFF
SDET
PLL
SCPC
PFB1
SYNC_SEP, PLL
BFP
WND2
ER2
WND1
ER1
PAL_PULSE
H_SHIFT
REF4FSC
VFLOAT_H
FLOAT_RST
SH_B
HR_B
BF_B
SEL_LAL
SHP
DET1
DET2
DET3
REF_BURST
SYNC_135
B_RST_L
CF_RST
SYS_SC_COARSE0
SYS_SC_COARSE1
RSY_B
ERR_B
WND_B
COM_BUFF
ERR
WND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J

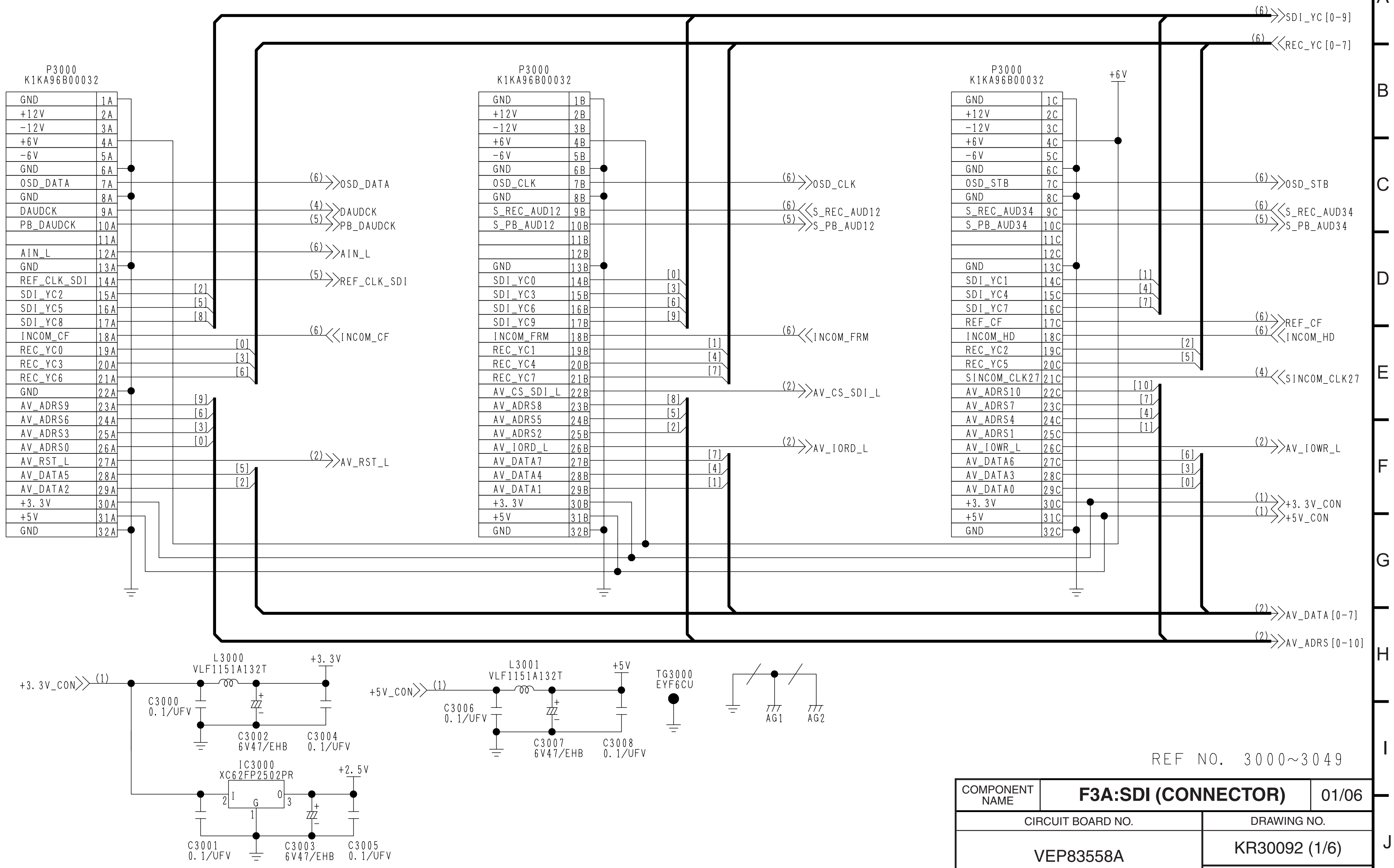
COMPONENT NAME	F2:V OUT (SYNC_GEN)	12/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (12/14)	
	SCM021	


INT_HST_N
INT_C_HST_N
INT_L
DOWN_H
INT_135
INT_Y[0-7]
INT_C[0-7]
DIN_BUFF
IC900
PAT/MB87D132
CIN1
CIN0
VDD
VSS
XMM
XMS0
XMS1
XMS2
XMS3
XMS4
TEST0
TEST1
TEST2
YOUT9
YOUT8
YOUT7
YOUT6
YOUT5
YOUT4
YOUT3
YOUT2
YOUT1
YOUT0
YIN7
OE
MOD
DOWN
COMB
CDLYL
INTHSTL
TWE
TRE
TDC
COUT0
COUT1
D+5
DGND
R900 PAT/J3
R901 PAT/J3
R902 PAT/J3
C900 PAT/UFV
C901 PAT/UFV
C902 PAT/UFV
C903 PAT/UFV
PR_C[0-9]
PR_Y[0-9]
THROUGH_L
THROUGH_H
IC901 PAT/C0JBAZ001777
IC902 PAT/C0JBAZ001777
IC903 PAT/C0JBAZ001777
IC904 PAT/C0JBAZ001777
IC905 PAT/NVHC244FTEL
R903 PAT/J3
R904 PAT/J3
R905 PAT/J3
R907 PAT/J3
R908 D1H833040002
R909 D1H833040002
R910 D1H833040002
R911 D1H833040002
R912 D1H833040002
PROC_Y[0-9]
PROC_C[0-9]
PROC
D+3
C904 PAT/UFV
C905 PAT/UFV
C906 PAT/UFV
C907 PAT/UFV
C908 PAT/UFV

COMPONENT NAME	F2:V OUT (INT)	13/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (13/14)	
	SCM022	

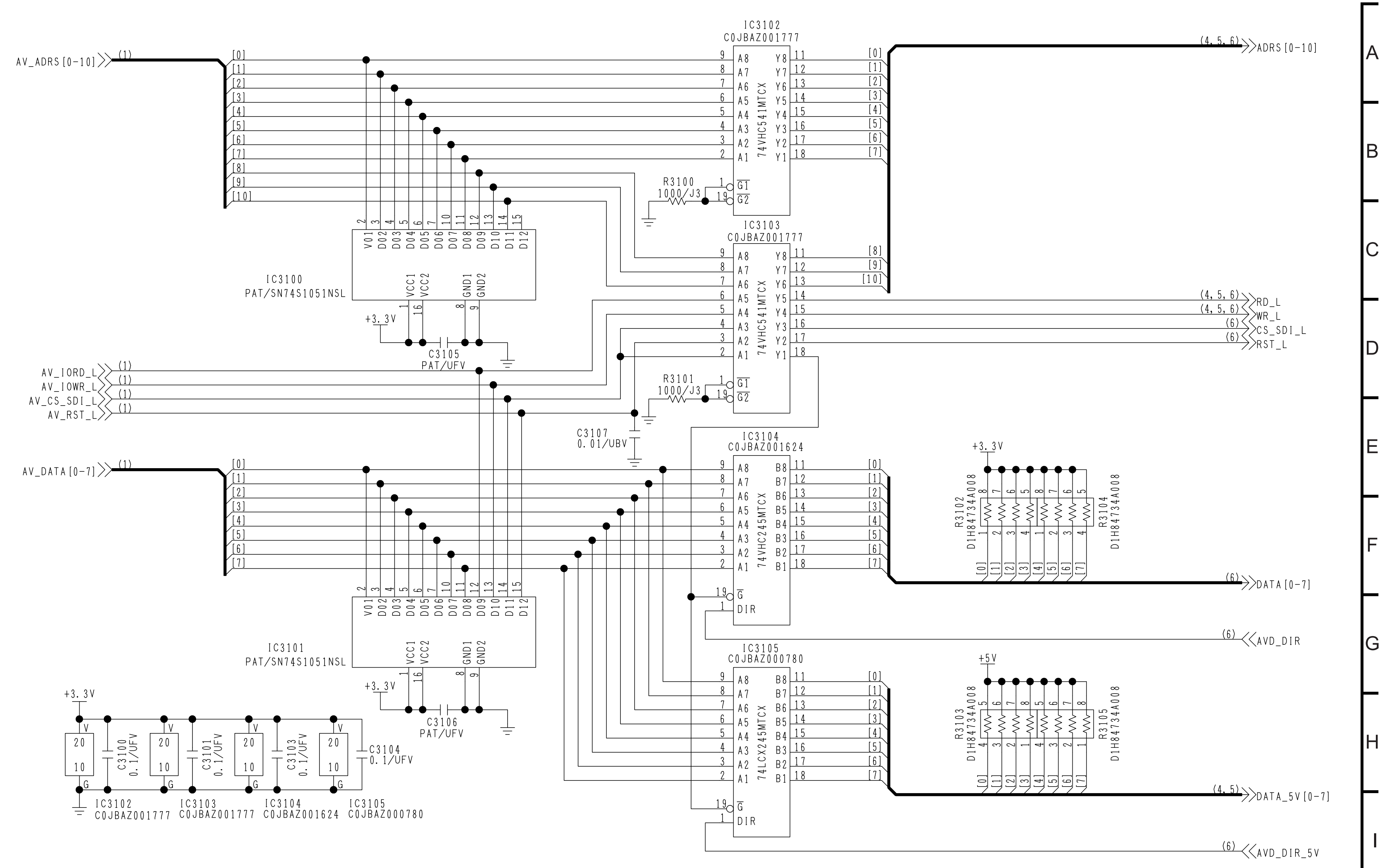
REF	AJ-D455P
C342	F1H1C104A042
C584	-----
C585	-----
C586	-----
IC565	-----
IC602	-----
ID202	VSI3559A
L562	VLQ0163J680
P201	-----
Q457	2SB709A-TX
Q463	-----
QR300	UN521300L
R200	-----
R202	-----
R203	ERJ3GEY0R00V
R204	ERJ3GEY0R00V
R205	ERJ3GEY0R00V
R358	ERJ3RBD182V
R359	ERJ3GEY0R00V
R449	-----
R450	ERJ3GEYJ470V
R454	ERJ3GEYJ102V
R459	ERJ3RBD680V
R465	ERJ3RBD151V
R466	ERJ3RBD821V
R468	-----
R492	-----
R572	-----
R573	-----
R574	-----
R603	-----
R604	-----
R703	ERJ3GEY0R00V
R704	-----
VR451	EVMEGSA00B12
X600	VSX0197

COMPONENT NAME	F2:V OUT (PARTS_TABLE)	14/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (14/14)	
	SCM023	


P3000
K1KA96B00032
GND 1A
+12V 2A
-12V 3A
+6V 4A
-6V 5A
GND 6A
OSD_DATA 7A
GND 8A
DAUDCK 9A
PB_DAUDCK 10A
11A
AIN_L 12A
GND 13A
REF_CLK_SDI 14A
SDI_YC2 15A
SDI_YC5 16A
SDI_YC8 17A
INCOM_CF 18A
REC_YC0 19A
REC_YC3 20A
REC_YC6 21A
GND 22A
AV_ADRS9 23A
AV_ADRS6 24A
AV_ADRS3 25A
AV_ADRS0 26A
AV_RST_L 27A
AV_DATA5 28A
AV_DATA2 29A
+3.3V 30A
+5V 31A
GND 32A
P3000
K1KA96B00032
GND 1B
+12V 2B
-12V 3B
+6V 4B
-6V 5B
GND 6B
OSD_CLK 7B
GND 8B
S_REC_AUD12 9B
S_PB_AUD12 10B
11B
12B
GND 13B
SDI_YC0 14B
SDI_YC3 15B
SDI_YC6 16B
SDI_YC9 17B
INCOM_FRM 18B
REC_YC1 19B
REC_YC4 20B
REC_YC7 21B
AV_CS_SDI_L 22B
AV_ADRS8 23B
AV_ADRS5 24B
AV_ADRS2 25B
AV_IORD_L 26B
AV_DATA7 27B
AV_DATA4 28B
AV_DATA1 29B
+3.3V 30B
+5V 31B
GND 32B
P3000
K1KA96B00032
GND 1C
+12V 2C
-12V 3C
+6V 4C
-6V 5C
GND 6C
OSD_STB 7C
GND 8C
S_REC_AUD34 9C
S_PB_AUD34 10C
11C
12C
GND 13C
SDI_YC1 14C
SDI_YC4 15C
SDI_YC7 16C
REF_CF 17C
INCOM_HD 18C
REC_YC2 19C
REC_YC5 20C
SINCOM_CLK27 21C
AV_ADRS10 22C
AV_ADRS7 23C
AV_ADRS4 24C
AV_ADRS1 25C
AV_IOWR_L 26C
AV_DATA6 27C
AV_DATA3 28C
AV_DATA0 29C
+3.3V 30C
+5V 31C
GND 32C
+6V
(6) SDI_YC[0-9]
(6) REC_YC[0-7]
(6) OSD_DATA
(4) DAUDCK
(5) PB_DAUDCK
(6) AIN_L
(5) REF_CLK_SDI
(6) INCOM_CF
(2) AV_RST_L
(6) OSD_CLK
(6) S_REC_AUD12
(5) S_PB_AUD12
(6) INCOM_FRM
(2) AV_CS_SDI_L
(2) AV_IORD_L
(6) OSD_STB
(6) S_REC_AUD34
(5) S_PB_AUD34
(6) REF_CF
(6) INCOM_HD
(4) SINCOM_CLK27
(2) AV_IOWR_L
(1) +3.3V_CON
(1) +5V_CON
(2) AV_DATA[0-7]
(2) AV_ADRS[0-10]
[2] [5] [8] [0] [3] [6] [9] [6] [3] [0] [5] [2]
[0] [3] [6] [9] [1] [4] [7] [8] [5] [2] [7] [4] [1]
[1] [4] [7] [2] [5] [10] [7] [4] [1] [6] [3] [0]
+3.3V_CON (1)
L3000
VLF1151A132T
+3.3V
C3000
0.1/UFV
C3002
6V47/EHB
C3004
0.1/UFV
IC3000
XC62FP2502PR
+2.5V
2 I G 0 3
1
C3001
0.1/UFV
C3003
6V47/EHB
C3005
0.1/UFV
+5V_CON (1)
L3001
VLF1151A132T
+5V
C3006
0.1/UFV
C3007
6V47/EHB
C3008
0.1/UFV
TG3000
EYF6CU
AG1
AG2
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

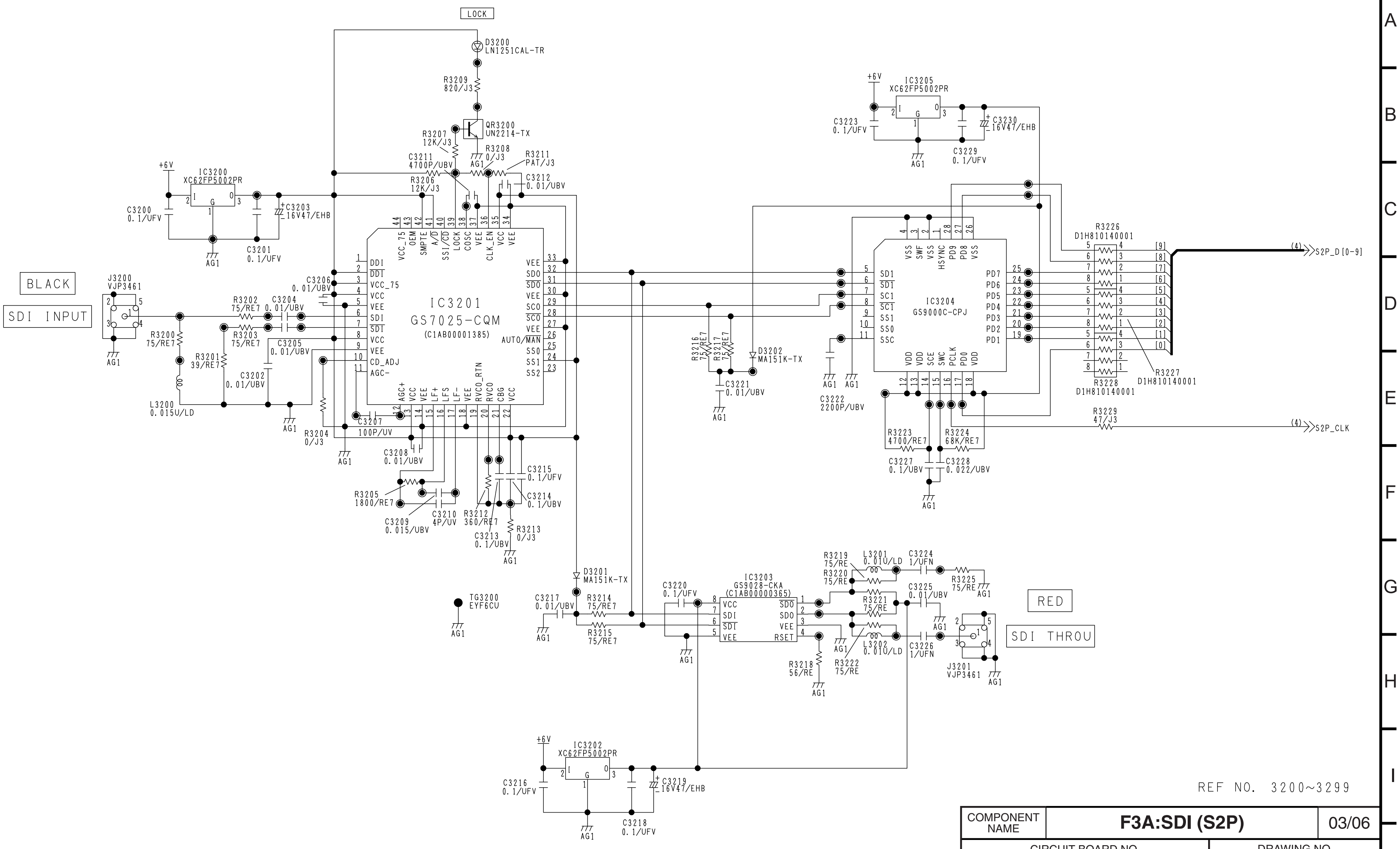
REF NO. 3000~3049

COMPONENT NAME	F3A:SDI (CONNECTOR)	01/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (1/6)	
	SCM024	


AV_ADRS[0-10]
(1)
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10]
IC3102
C0JBAZ001777
74VHC541MTCX
A8 A7 A6 A5 A4 A3 A2 A1
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
G1 G2
R3100
1000/J3
(4,5,6)
ADRS[0-10]
IC3100
PAT/SN74S1051NSL
V01 D02 D03 D04 D05 D06 D07 D08 D09 D10 D11 D12
VCC1 VCC2 GND1 GND2
+3.3V
C3105
PAT/UFV
IC3103
C0JBAZ001777
74VHC541MTCX
R3101
1000/J3
RD_L
WR_L
CS_SDI_L
RST_L
AV_IORD_L
AV_IOWR_L
AV_CS_SDI_L
AV_RST_L
C3107
0.01/UBV
AV_DATA[0-7]
IC3104
C0JBAZ001624
74VHC245MTCX
B8 B7 B6 B5 B4 B3 B2 B1
G
DIR
+3.3V
R3102
D1H84734A008
R3104
D1H84734A008
(6)
DATA[0-7]
AVD_DIR
IC3101
PAT/SN74S1051NSL
+3.3V
C3106
PAT/UFV
IC3105
C0JBAZ000780
74LCX245MTCX
+5V
R3103
D1H84734A008
R3105
D1H84734A008
(4,5)
DATA_5V[0-7]
AVD_DIR_5V
+3.3V
C3100
0.1/UFV
C3101
0.1/UFV
C3103
0.1/UFV
C3104
0.1/UFV
IC3102
C0JBAZ001777
IC3103
C0JBAZ001777
IC3104
C0JBAZ001624
IC3105
C0JBAZ000780
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

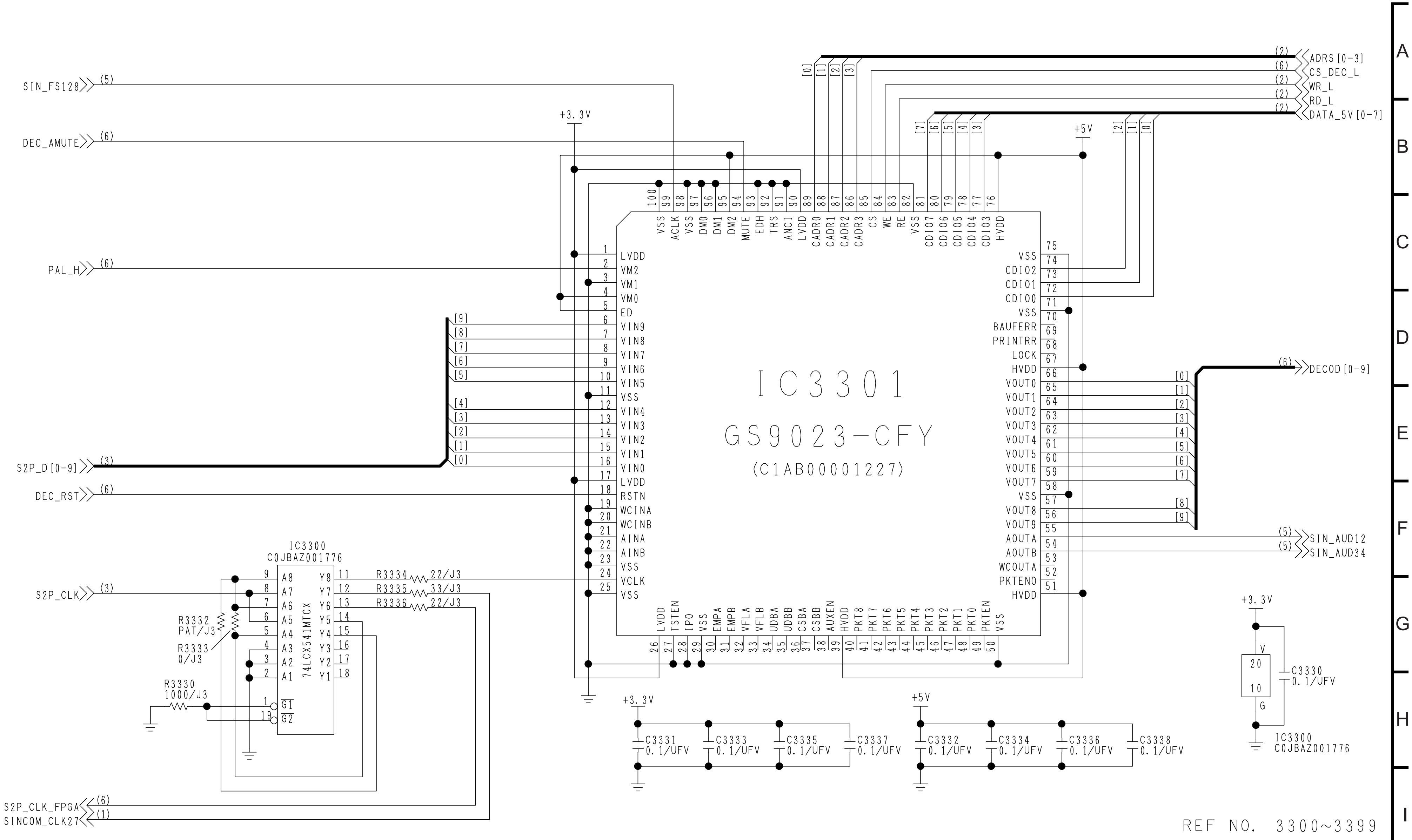
REF NO. 3100~3199

COMPONENT NAME	F3A:SDI (SYSIO)		02/06
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83558A		KR30092 (2/6)	
		SCM025	


LOCK
D3200
LN1251CAL-TR
R3209
820/J3
QR3200
UN2214-TX
R3207
12K/J3
R3208
0/J3
AG1
C3211
4700P/UBV
R3211
PAT/J3
C3212
0.01/UBV
R3206
12K/J3
+6V
IC3200
XC62FP5002PR
C3200
0.1/UFV
C3203
16V47/EHB
C3201
0.1/UFV
BLACK
SDI INPUT
J3200
VJP3461
R3202
75/RE7
C3204
0.01/UBV
C3206
0.01/UBV
R3203
75/RE7
R3200
75/RE7
R3201
39/RE7
C3205
0.01/UBV
C3202
0.01/UBV
L3200
0.015U/LD
R3204
0/J3
C3207
100P/UV
C3208
0.01/UBV
R3205
1800/RE7
C3209
0.015/UBV
C3210
4P/UV
R3212
360/RE7
C3213
0.1/UBV
R3213
0/J3
C3214
0.1/UBV
C3215
0.1/UFV
IC3201
GS7025-CQM
(C1AB00001385)
DDI
VCC_75
VCC
VEE
SDI
CD_ADJ
AGC-
AGC+
LF+
LF-
LFS
RVCO_RTN
RVCO
CBG
OEM
SMPTE
A/D
SSI/CD
LOCK
COSC
CLK_EN
SDO
SCO
AUTO/MAN
SS0
SS1
SS2
TG3200
EYF6CU
D3201
MA151K-TX
C3217
0.01/UBV
R3214
75/RE7
R3215
75/RE7
C3220
0.1/UFV
IC3203
GS9028-CKA
(C1AB00000365)
VCC
SDI
VEE
SDO
RSET
R3218
56/RE
R3219
75/RE
R3220
75/RE
L3201
0.010/LD
C3224
1/UFN
R3225
75/RE
R3221
75/RE
C3225
0.01/UBV
R3222
75/RE
L3202
0.010/LD
C3226
1/UFN
J3201
VJP3461
RED
SDI THROU
+6V
IC3202
XC62FP5002PR
C3216
0.1/UFV
C3218
0.1/UFV
C3219
16V47/EHB
R3216
75/RE7
R3217
75/RE7
D3202
MA151K-TX
C3221
0.01/UBV
+6V
IC3205
XC62FP5002PR
C3223
0.1/UFV
C3229
0.1/UFV
C3230
16V47/EHB
IC3204
GS9000C-CPJ
VSS
SWF
HSYNC
PD9
PD8
SDI
SCI
SS1
SS0
SSC
VDD
SCE
SWC
PCLK
PD0
PD7
PD6
PD5
PD4
PD3
PD2
PD1
C3222
2200P/UBV
R3223
4700/RE7
R3224
68K/RE7
C3227
0.1/UBV
C3228
0.022/UBV
R3226
D1H810140001
R3227
D1H810140001
R3228
D1H810140001
R3229
47/J3
(4) S2P_D[0-9]
(4) S2P_CLK
[9]
[8]
[7]
[6]
[5]
[4]
[3]
[2]
[1]
[0]
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

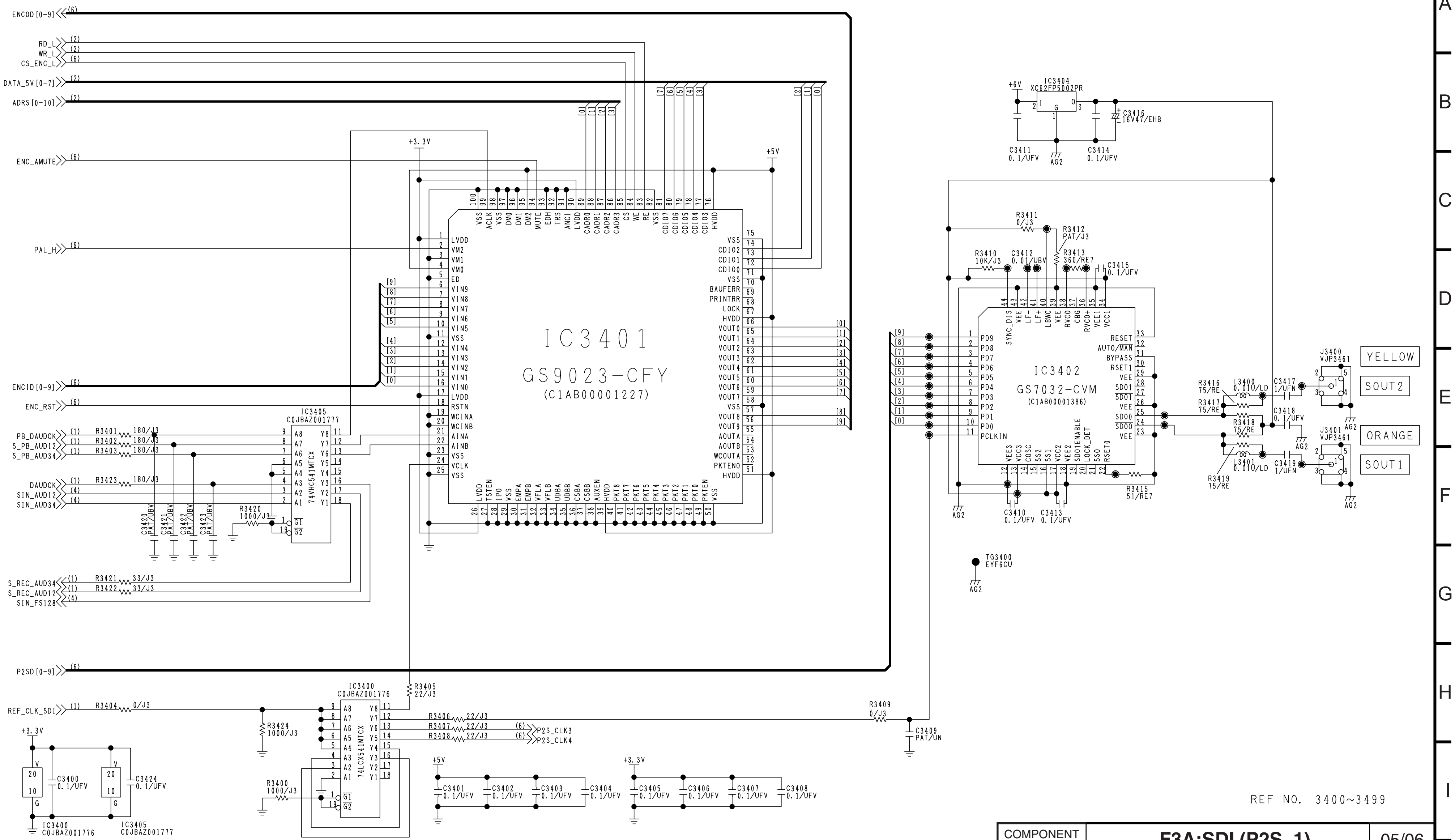
REF NO. 3200~3299

COMPONENT NAME	F3A:SDI (S2P)	03/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (3/6)	
	SCM026	

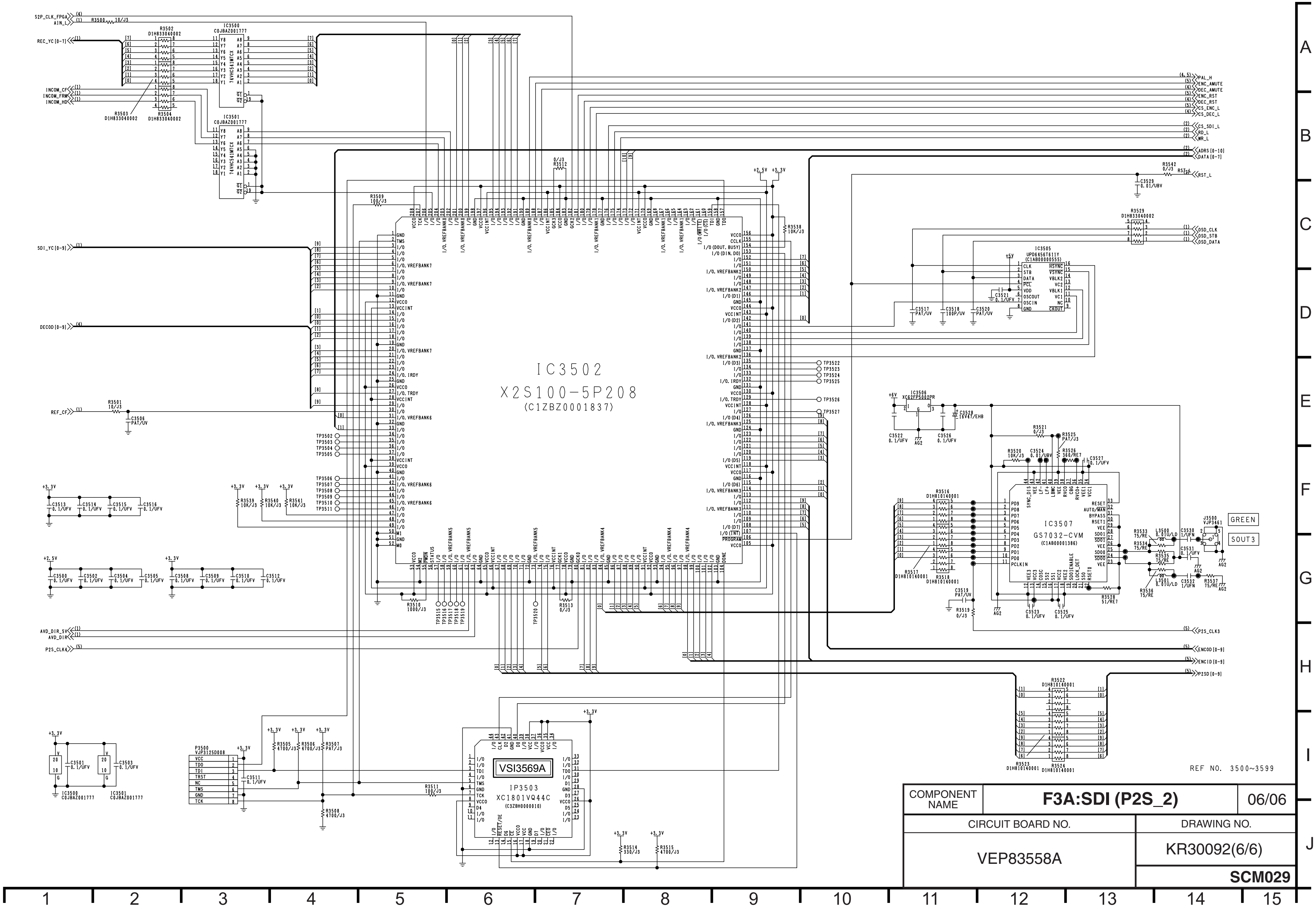

IC3301
GS9023-CFY
(C1AB00001227)
IC3300
C0JBAZ001776
74LCX541MTCX
SIN_FS128 (5)
DEC_AMUTE (6)
PAL_H (6)
S2P_D[0-9] (3)
DEC_RST (6)
S2P_CLK (3)
S2P_CLK_FPGA (6)
SINCOM_CLK27 (1)
ADRS[0-3] (2)
CS_DEC_L (6)
WR_L (2)
RD_L (2)
DATA_5V[0-7] (2)
DECOD[0-9] (6)
SIN_AUD12 (5)
SIN_AUD34 (5)
+3.3V
+5V
R3332 PAT/J3
R3333 0/J3
R3330 1000/J3
R3334 22/J3
R3335 33/J3
R3336 22/J3
C3331 0.1/UFV
C3333 0.1/UFV
C3335 0.1/UFV
C3337 0.1/UFV
C3332 0.1/UFV
C3334 0.1/UFV
C3336 0.1/UFV
C3338 0.1/UFV
C3330 0.1/UFV
LVDD VM2 VM1 VM0 ED VIN9 VIN8 VIN7 VIN6 VIN5 VSS VIN4 VIN3 VIN2 VIN1 VIN0 LVDD RSTN WCINA WCINB AINA AINB VSS VCLK VSS
VSS CDIO2 CDIO1 CDIO0 VSS BAUFERR PRINTRR LOCK HVDD VOUT0 VOUT1 VOUT2 VOUT3 VOUT4 VOUT5 VOUT6 VOUT7 VSS VOUT8 VOUT9 AOUTA AOUTB WCOUTA PKTEN0 HVDD
VSS ACLK VSS DM0 DM1 DM2 MUTE EDH TRS ANCI LVDD CADR0 CADR1 CADR2 CADR3 CS WE RE VSS CDIO7 CDIO6 CDIO5 CDIO4 CDIO3 HVDD
LVDD TSTEN IPO VSS EMPA EMPB VFLA VFLB UDBA UDBB CSBA CSBB AUXEN HVDD PKT8 PKT7 PKT6 PKT5 PKT4 PKT3 PKT2 PKT1 PKT0 PKTEN VSS
A8 A7 A6 A5 A4 A3 A2 A1 G1 G2 Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

REF NO. 3300~3399

COMPONENT NAME	F3A:SDI (DECODER)	04/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (4/6)	
	SCM027	

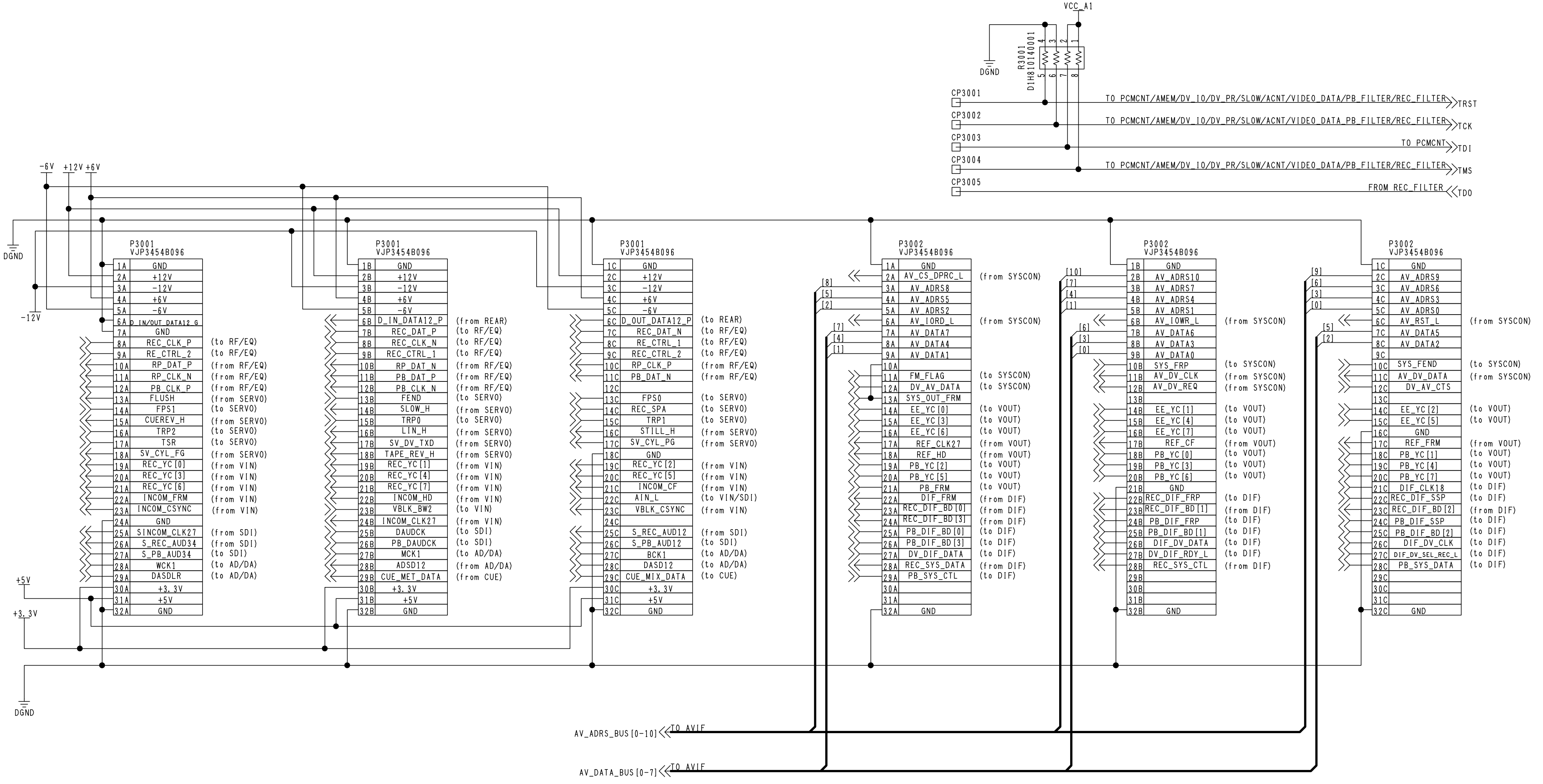

ENCOD[0-9] (6)
RD_L (2)
WR_L (2)
CS_ENC_L (6)
DATA_5V[0-7] (2)
ADRS[0-10] (2)
ENC_AMUTE (6)
PAL_H (6)
ENCID[0-9] (6)
ENC_RST (6)
PB_DAUDCK (1)
S_PB_AUD12 (1)
S_PB_AUD34 (1)
DAUDCK (1)
SIN_AUD12 (4)
SIN_AUD34 (4)
S_REC_AUD34 (1)
S_REC_AUD12 (1)
SIN_FS128 (4)
P2SD[0-9] (6)
REF_CLK_SDI (1)
+3.3V
+5V
+6V
IC3401
GS9023-CFY
(C1AB00001227)
IC3402
GS7032-CVM
(C1AB00001386)
IC3404
XC62FP5002PR
IC3405
C0JBAZ001777
74VHC541MTCX
IC3400
C0JBAZ001776
74LCX541MTCX
R3401 180/J3
R3402 180/J3
R3403 180/J3
R3423 180/J3
R3420 1000/J3
R3421 33/J3
R3422 33/J3
R3404 0/J3
R3424 1000/J3
R3405 22/J3
R3406 22/J3
R3407 22/J3
R3408 22/J3
R3400 1000/J3
R3409 0/J3
R3410 10K/J3
R3411 0/J3
R3412 PAT/J3
R3413 360/RE7
R3415 51/RE7
R3416 75/RE
R3417 75/RE
R3418 75/RE
R3419 75/RE
L3400 0.010/LD
L3401 0.010/LD
C3400 0.1/UFV
C3401 0.1/UFV
C3402 0.1/UFV
C3403 0.1/UFV
C3404 0.1/UFV
C3405 0.1/UFV
C3406 0.1/UFV
C3407 0.1/UFV
C3408 0.1/UFV
C3409 PAT/UN
C3410 0.1/UFV
C3411 0.1/UFV
C3412 0.01/UBV
C3413 0.1/UFV
C3414 0.1/UFV
C3415 0.1/UFV
C3416 16V47/EHB
C3417 1/UFN
C3418 0.1/UFV
C3419 1/UFN
C3420 PAT/UBV
C3421 PAT/UBV
C3422 PAT/UBV
C3423 PAT/UBV
C3424 0.1/UFV
P2S_CLK3 (6)
P2S_CLK4 (6)
TG3400 EYF6CU
J3400 VJP3461
J3401 VJP3461
YELLOW
SOUT2
ORANGE
SOUT1
AG2
REF NO. 3400~3499
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	**F3A:SDI (P2S_1)**	05/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83558A		KR30092 (5/6)
		SCM028


IC3502
X2S100-5P208
(C1ZBZ0001837)
IC3500
C0JBAZ001777
IC3501
C0JBAZ001777
IC3505
UPD6456T611Y
(C1AB00000555)
IC3506
XC62FP5002PR
IC3507
GS7032-CVM
(C1AB00001386)
IP3503
XC1801VQ44C
(C3ZBH0000010)
VSI3569A
P3500
VJP3125D008
J3500
VJP3461
GREEN
SOUT3
S2P_CLK_FPGA
AIN_L
REC_YC[0-7]
INCOM_CF
INCOM_FRM
INCOM_HD
SDI_YC[0-9]
DECOD[0-9]
REF_CF
AVD_DIR_5V
AVD_DIR
P2S_CLK4
PAL_H
ENC_AMUTE
DEC_AMUTE
ENC_RST
DEC_RST
CS_ENC_L
CS_DEC_L
CS_SDI_L
RD_L
WR_L
ADRS[0-10]
DATA[0-7]
RST_L
OSD_CLK
OSD_STB
OSD_DATA
P2S_CLK3
ENCOD[0-9]
ENCID[0-9]
P2SD[0-9]
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

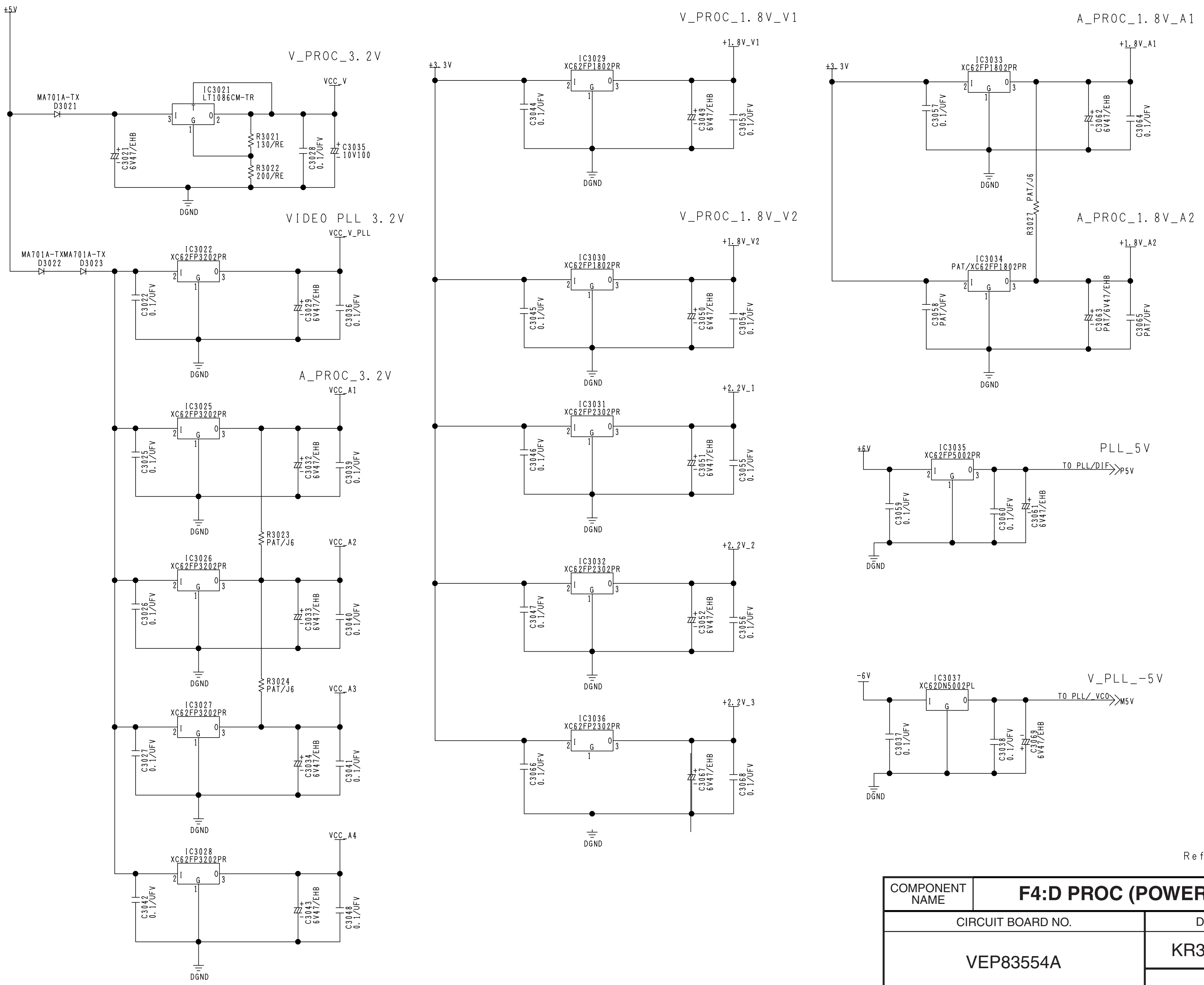
REF NO. 3500~3599

COMPONENT NAME	F3A:SDI (P2S_2)	06/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092(6/6)	
	SCM029	


VCC_A1
DGND
R3001
D1H810140001
CP3001
TO PCMCNT/AMEM/DV_IO/DV_PR/SLOW/ACNT/VIDEO_DATA/PB_FILTER/REC_FILTER
TRST
CP3002
TO PCMCNT/AMEM/DV_IO/DV_PR/SLOW/ACNT/VIDEO_DATA_PB_FILTER/REC_FILTER
TCK
CP3003
TO PCMCNT
TDI
CP3004
TO PCMCNT/AMEM/DV_IO/DV_PR/SLOW/ACNT/VIDEO_DATA/PB_FILTER/REC_FILTER
TMS
CP3005
FROM REC_FILTER
TDO
-6V
+12V
+6V
-12V
+5V
+3.3V
DGND
P3001
VJP3454B096
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A D_IN/OUT_DATA12_G
7A GND
8A REC_CLK_P (to RF/EQ)
9A RE_CTRL_2 (to RF/EQ)
10A RP_DAT_P (from RF/EQ)
11A RP_CLK_N (from RF/EQ)
12A PB_CLK_P (from RF/EQ)
13A FLUSH (from SERVO)
14A FPS1 (to SERVO)
15A CUEREV_H (from SERVO)
16A TRP2 (to SERVO)
17A TSR (to SERVO)
18A SV_CYL_FG (from SERVO)
19A REC_YC[0] (from VIN)
20A REC_YC[3] (from VIN)
21A REC_YC[6] (from VIN)
22A INCOM_FRM (from VIN)
23A INCOM_CSYNC (from VIN)
24A GND
25A SINCOM_CLK27 (from SDI)
26A S_REC_AUD34 (from SDI)
27A S_PB_AUD34 (to SDI)
28A WCK1 (to AD/DA)
29A DASDLR (to AD/DA)
30A +3.3V
31A +5V
32A GND
P3001
VJP3454B096
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B D_IN_DATA12_P (from REAR)
7B REC_DAT_P (to RF/EQ)
8B REC_CLK_N (to RF/EQ)
9B REC_CTRL_1 (to RF/EQ)
10B RP_DAT_N (from RF/EQ)
11B PB_DAT_P (from RF/EQ)
12B PB_CLK_N (from RF/EQ)
13B FEND (to SERVO)
14B SLOW_H (from SERVO)
15B TRP0 (to SERVO)
16B LIN_H (from SERVO)
17B SV_DV_TXD (from SERVO)
18B TAPE_REV_H (from SERVO)
19B REC_YC[1] (from VIN)
20B REC_YC[4] (from VIN)
21B REC_YC[7] (from VIN)
22B INCOM_HD (from VIN)
23B VBLK_BW2 (to VIN)
24B INCOM_CLK27 (from VIN)
25B DAUDCK (to SDI)
26B PB_DAUDCK (to SDI)
27B MCK1 (to AD/DA)
28B ADSD12 (from AD/DA)
29B CUE_MET_DATA (from CUE)
30B +3.3V
31B +5V
32B GND
P3001
VJP3454B096
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C D_OUT_DATA12_P (to REAR)
7C REC_DAT_N (to RF/EQ)
8C RE_CTRL_1 (to RF/EQ)
9C REC_CTRL_2 (to RF/EQ)
10C RP_CLK_P (from RF/EQ)
11C PB_DAT_N (from RF/EQ)
12C
13C FPS0 (to SERVO)
14C REC_SPA (to SERVO)
15C TRP1 (to SERVO)
16C STILL_H (from SERVO)
17C SV_CYL_PG (from SERVO)
18C GND
19C REC_YC[2] (from VIN)
20C REC_YC[5] (from VIN)
21C INCOM_CF (from VIN)
22C AIN_L (to VIN/SDI)
23C VBLK_CSYNC (from VIN)
24C
25C S_REC_AUD12 (from SDI)
26C S_PB_AUD12 (to SDI)
27C BCK1 (to AD/DA)
28C DASD12 (to AD/DA)
29C CUE_MIX_DATA (to CUE)
30C +3.3V
31C +5V
32C GND
P3002
VJP3454B096
1A GND
2A AV_CS_DPRC_L (from SYSCON)
3A AV_ADRS8
4A AV_ADRS5
5A AV_ADRS2
6A AV_IORD_L (from SYSCON)
7A AV_DATA7
8A AV_DATA4
9A AV_DATA1
10A
11A FM_FLAG (to SYSCON)
12A DV_AV_DATA (to SYSCON)
13A SYS_OUT_FRM
14A EE_YC[0] (to VOUT)
15A EE_YC[3] (to VOUT)
16A EE_YC[6] (to VOUT)
17A REF_CLK27 (from VOUT)
18A REF_HD (from VOUT)
19A PB_YC[2] (to VOUT)
20A PB_YC[5] (to VOUT)
21A PB_FRM (to VOUT)
22A DIF_FRM (from DIF)
23A REC_DIF_BD[0] (from DIF)
24A REC_DIF_BD[3] (from DIF)
25A PB_DIF_BD[0] (to DIF)
26A PB_DIF_BD[3] (to DIF)
27A DV_DIF_DATA (to DIF)
28A REC_SYS_DATA (from DIF)
29A PB_SYS_CTL (to DIF)
30A
31A
32A GND
[8]
[5]
[2]
[7]
[4]
[1]
P3002
VJP3454B096
1B GND
2B AV_ADRS10
3B AV_ADRS7
4B AV_ADRS4
5B AV_ADRS1
6B AV_IOWR_L (from SYSCON)
7B AV_DATA6
8B AV_DATA3
9B AV_DATA0
10B SYS_FRP (to SYSCON)
11B AV_DV_CLK (from SYSCON)
12B AV_DV_REQ (from SYSCON)
13B
14B EE_YC[1] (to VOUT)
15B EE_YC[4] (to VOUT)
16B EE_YC[7] (to VOUT)
17B REF_CF (from VOUT)
18B PB_YC[0] (to VOUT)
19B PB_YC[3] (to VOUT)
20B PB_YC[6] (to VOUT)
21B GND
22B REC_DIF_FRP (to DIF)
23B REC_DIF_BD[1] (from DIF)
24B PB_DIF_FRP (to DIF)
25B PB_DIF_BD[1] (to DIF)
26B DIF_DV_DATA (to DIF)
27B DV_DIF_RDY_L (to DIF)
28B REC_SYS_CTL (from DIF)
29B
30B
31B
32B GND
[10]
[7]
[4]
[1]
[6]
[3]
[0]
P3002
VJP3454B096
1C GND
2C AV_ADRS9
3C AV_ADRS6
4C AV_ADRS3
5C AV_ADRS0
6C AV_RST_L (from SYSCON)
7C AV_DATA5
8C AV_DATA2
9C
10C SYS_FEND (to SYSCON)
11C AV_DV_DATA (from SYSCON)
12C DV_AV_CTS
13C
14C EE_YC[2] (to VOUT)
15C EE_YC[5] (to VOUT)
16C GND
17C REF_FRM (from VOUT)
18C PB_YC[1] (to VOUT)
19C PB_YC[4] (to VOUT)
20C PB_YC[7] (to VOUT)
21C DIF_CLK18 (to DIF)
22C REC_DIF_SSP (to DIF)
23C REC_DIF_BD[2] (from DIF)
24C PB_DIF_SSP (to DIF)
25C PB_DIF_BD[2] (to DIF)
26C DIF_DV_CLK (to DIF)
27C DIF_DV_SEL_REC_L (to DIF)
28C PB_SYS_DATA (to DIF)
29C
30C
31C
32C GND
[9]
[6]
[3]
[0]
[5]
[2]
AV_ADRS_BUS[0-10] TO AVIF
AV_DATA_BUS[0-7] TO AVIF

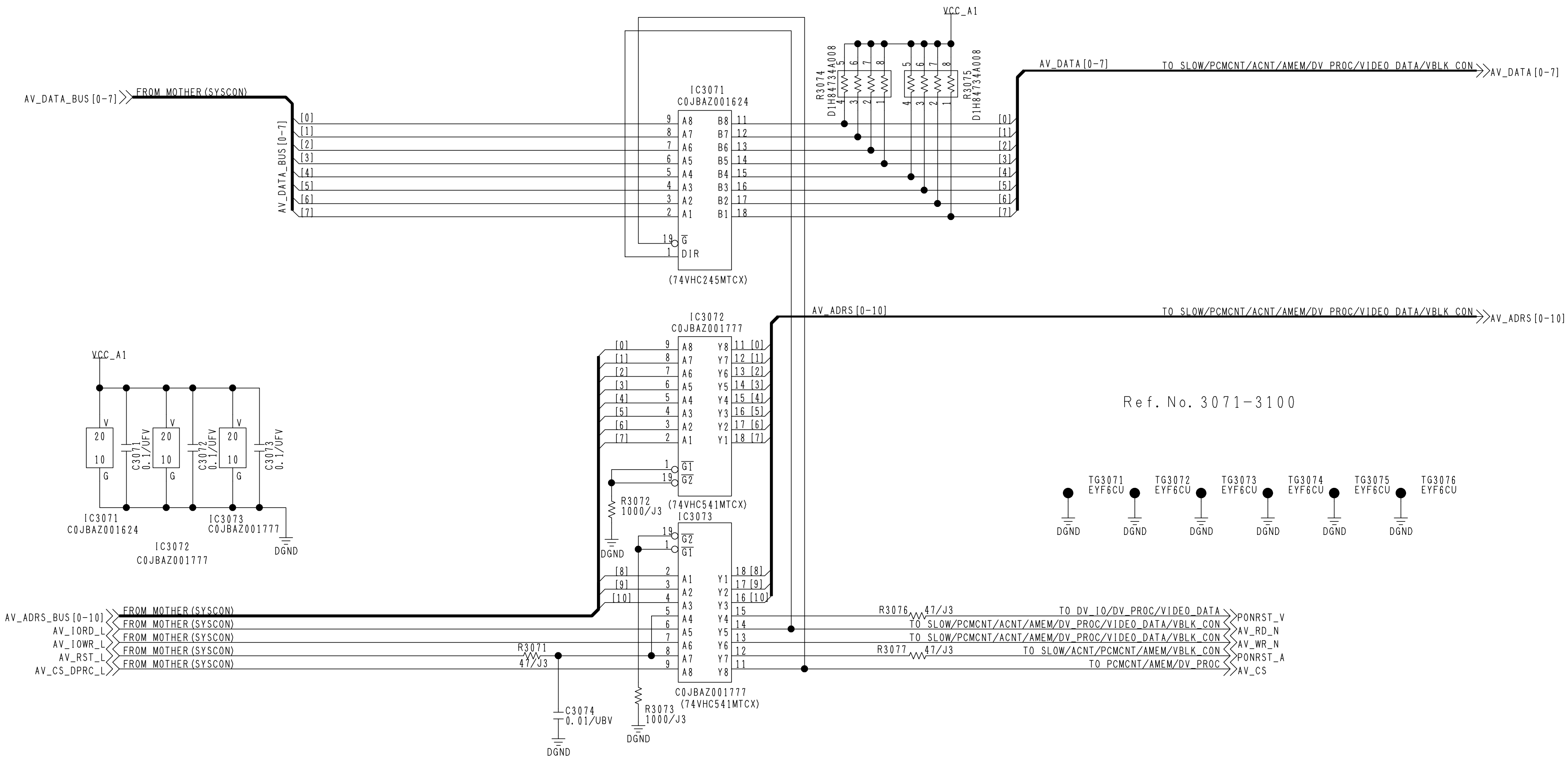
Ref No. 3001-3020

COMPONENT NAME	F4:D PROC (MOTHER)	01/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (1/27)	
	SCM030	


+5V
V_PROC_3.2V
VCC_V
MA701A-TX
D3021
IC3021
LT1086CM-TR
R3021
130/RE
R3022
200/RE
C3021
6V47/EHB
C3028
0.1/UFV
C3035
10V100
DGND
VIDEO PLL 3.2V
VCC_V_PLL
MA701A-TXMA701A-TX
D3022 D3023
IC3022
XC62FP3202PR
C3022
0.1/UFV
C3029
6V47/EHB
C3036
0.1/UFV
A_PROC_3.2V
VCC_A1
IC3025
XC62FP3202PR
C3025
C3032
C3039
R3023
PAT/J6
VCC_A2
IC3026
XC62FP3202PR
C3026
C3033
C3040
R3024
PAT/J6
VCC_A3
IC3027
XC62FP3202PR
C3027
C3034
C3041
VCC_A4
IC3028
XC62FP3202PR
C3042
C3043
C3048
+3.3V
V_PROC_1.8V_V1
+1.8V_V1
IC3029
XC62FP1802PR
C3044
C3049
C3053
V_PROC_1.8V_V2
+1.8V_V2
IC3030
XC62FP1802PR
C3045
C3050
C3054
+2.2V_1
IC3031
XC62FP2302PR
C3046
C3051
C3055
+2.2V_2
IC3032
XC62FP2302PR
C3047
C3052
C3056
+2.2V_3
IC3036
XC62FP2302PR
C3066
C3067
C3068
+3.3V
A_PROC_1.8V_A1
+1.8V_A1
IC3033
XC62FP1802PR
C3057
C3062
C3064
R3027 PAT/J6
A_PROC_1.8V_A2
+1.8V_A2
IC3034
PAT/XC62FP1802PR
C3058
PAT/UFV
C3063
PAT/6V47/EHB
C3065
PAT/UFV
PLL_5V
+6V
IC3035
XC62FP5002PR
TO PLL/DIF
P5V
C3059
C3060
C3061
V_PLL_-5V
-6V
IC3037
XC62DN5002PL
TO PLL/_VCO
M5V
C3037
C3038
C3069

Ref No. 3021-3070

COMPONENT NAME	**F4:D PROC (POWER)**		02/27
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83554A		KR30088 (2/27)	
		SCM031	


AV_DATA_BUS[0-7]
FROM MOTHER(SYSCON)
AV_DATA_BUS[0-7]
[0]
[1]
[2]
[3]
[4]
[5]
[6]
[7]
IC3071
C0JBAZ001624
A8
A7
A6
A5
A4
A3
A2
A1
B8
B7
B6
B5
B4
B3
B2
B1
G
DIR
(74VHC245MTCX)
VCC_A1
R3074
D1H84734A008
R3075
D1H84734A008
AV_DATA[0-7]
TO SLOW/PCMCNT/ACNT/AMEM/DV_PROC/VIDEO_DATA/VBLK_CON
AV_DATA[0-7]
AV_ADRS[0-10]
TO SLOW/PCMCNT/ACNT/AMEM/DV_PROC/VIDEO_DATA/VBLK_CON
AV_ADRS[0-10]
IC3072
C0JBAZ001777
Y8
Y7
Y6
Y5
Y4
Y3
Y2
Y1
G1
G2
(74VHC541MTCX)
R3072
1000/J3
DGND
IC3073
[8]
[9]
[10]
Ref. No. 3071-3100
VCC_A1
V
20
10
G
C3071
0.1/UFV
C3072
0.1/UFV
C3073
0.1/UFV
IC3071
C0JBAZ001624
IC3072
C0JBAZ001777
IC3073
C0JBAZ001777
DGND
TG3071
EYF6CU
TG3072
EYF6CU
TG3073
EYF6CU
TG3074
EYF6CU
TG3075
EYF6CU
TG3076
EYF6CU
DGND
AV_ADRS_BUS[0-10]
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_CS_DPRC_L
FROM MOTHER(SYSCON)
R3071
47/J3
C3074
0.01/UBV
DGND
R3073
1000/J3
DGND
C0JBAZ001777
(74VHC541MTCX)
R3076
47/J3
R3077
47/J3
TO DV_IO/DV_PROC/VIDEO_DATA
TO SLOW/PCMCNT/ACNT/AMEM/DV_PROC/VIDEO_DATA/VBLK_CON
TO SLOW/PCMCNT/ACNT/AMEM/DV_PROC/VIDEO_DATA/VBLK_CON
TO SLOW/ACNT/PCMCNT/AMEM/VBLK_CON
TO PCMCNT/AMEM/DV_PROC
PONRST_V
AV_RD_N
AV_WR_N
PONRST_A
AV_CS
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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14
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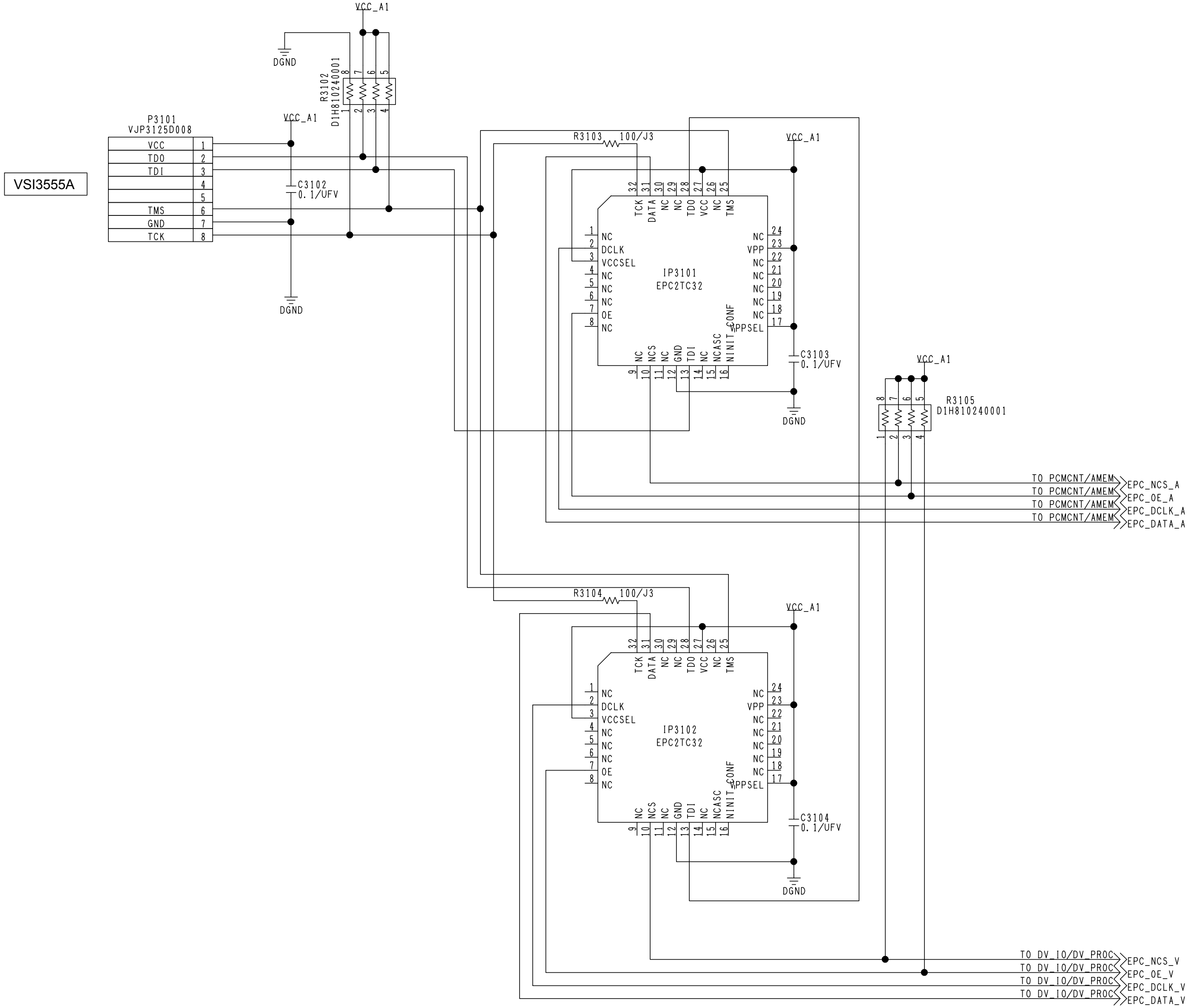
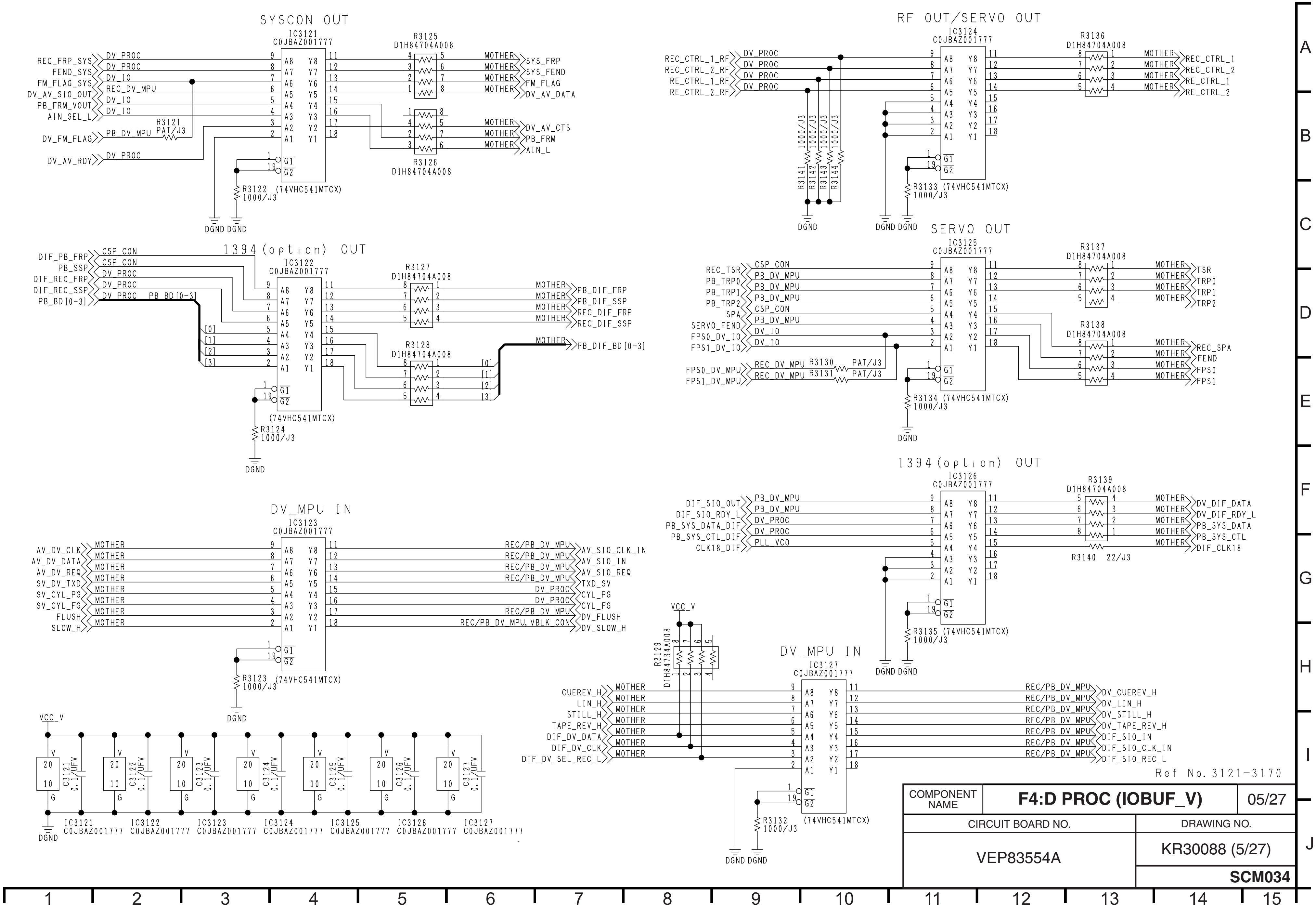
COMPONENT NAME	**F4:D PROC (AVIF)**	03/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (3/27)	
	SCM032	


VSI3555A
P3101
VJP3125D008
VCC 1
TDO 2
TDI 3
4
5
TMS 6
GND 7
TCK 8
VCC_A1
DGND
R3102
D1H810240001
C3102
0.1/UFV
R3103 100/J3
R3104 100/J3
IP3101
EPC2TC32
IP3102
EPC2TC32
TCK 32
DATA 31
NC 30
NC 29
TDO 28
VCC 27
NC 26
TMS 25
1 NC
2 DCLK
3 VCCSEL
4 NC
5 NC
6 NC
7 OE
8 NC
NC 24
VPP 23
NC 22
NC 21
NC 20
NC 19
NC 18
VPPSEL 17
NINIT_CONF
9 NC
10 NCS
11 NC
12 GND
13 TDI
14 NC
15 NCASC
16 NINIT_CONF
C3103
0.1/UFV
C3104
0.1/UFV
R3105
D1H810240001
TO PCMCNT/AMEM EPC_NCS_A
TO PCMCNT/AMEM EPC_OE_A
TO PCMCNT/AMEM EPC_DCLK_A
TO PCMCNT/AMEM EPC_DATA_A
TO DV_IO/DV_PROC EPC_NCS_V
TO DV_IO/DV_PROC EPC_OE_V
TO DV_IO/DV_PROC EPC_DCLK_V
TO DV_IO/DV_PROC EPC_DATA_V
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Ref. No. 3101-3120

COMPONENT NAME	F4:D PROC (ISP)	04/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (4/27)	
	SCM033	


SYSCON OUT
IC3121
C0JBAZ001777
R3125
D1H84704A008
REC_FRP_SYS
FEND_SYS
FM_FLAG_SYS
DV_AV_SIO_OUT
PB_FRM_VOUT
AIN_SEL_L
DV_FM_FLAG
DV_AV_RDY
DV_PROC
DV_IO
REC_DV_MPU
PB_DV_MPU
R3121
PAT/J3
MOTHER
SYS_FRP
SYS_FEND
FM_FLAG
DV_AV_DATA
DV_AV_CTS
PB_FRM
AIN_L
R3126
D1H84704A008
R3122
1000/J3
(74VHC541MTCX)
DGND
RF OUT/SERVO OUT
IC3124
C0JBAZ001777
R3136
D1H84704A008
REC_CTRL_1_RF
REC_CTRL_2_RF
RE_CTRL_1_RF
RE_CTRL_2_RF
REC_CTRL_1
REC_CTRL_2
RE_CTRL_1
RE_CTRL_2
R3141
R3142
R3143
R3144
1000/J3
R3133
1000/J3
1394(option) OUT
IC3122
C0JBAZ001777
R3127
D1H84704A008
DIF_PB_FRP
PB_SSP
DIF_REC_FRP
DIF_REC_SSP
PB_BD[0-3]
CSP_CON
PB_BD[0-3]
[0]
[1]
[2]
[3]
PB_DIF_FRP
PB_DIF_SSP
REC_DIF_FRP
REC_DIF_SSP
PB_DIF_BD[0-3]
R3128
D1H84704A008
R3124
1000/J3
SERVO OUT
IC3125
C0JBAZ001777
R3137
D1H84704A008
REC_TSR
PB_TRP0
PB_TRP1
PB_TRP2
SPA
SERVO_FEND
FPS0_DV_IO
FPS1_DV_IO
FPS0_DV_MPU
FPS1_DV_MPU
R3130
R3131
PAT/J3
TSR
TRP0
TRP1
TRP2
R3138
D1H84704A008
REC_SPA
FEND
FPS0
FPS1
R3134
1000/J3
1394(option) OUT
IC3126
C0JBAZ001777
R3139
D1H84704A008
DIF_SIO_OUT
DIF_SIO_RDY_L
PB_SYS_DATA_DIF
PB_SYS_CTL_DIF
CLK18_DIF
PLL_VCO
DV_DIF_DATA
DV_DIF_RDY_L
PB_SYS_DATA
PB_SYS_CTL
DIF_CLK18
R3140 22/J3
R3135
1000/J3
DV_MPU IN
IC3123
C0JBAZ001777
AV_DV_CLK
AV_DV_DATA
AV_DV_REQ
SV_DV_TXD
SV_CYL_PG
SV_CYL_FG
FLUSH
SLOW_H
REC/PB_DV_MPU
REC/PB_DV_MPU, VBLK_CON
AV_SIO_CLK_IN
AV_SIO_IN
AV_SIO_REQ
TXD_SV
CYL_PG
CYL_FG
DV_FLUSH
DV_SLOW_H
R3123
1000/J3
VCC_V
R3129
D1H84734A008
DV_MPU IN
IC3127
C0JBAZ001777
CUEREV_H
LIN_H
STILL_H
TAPE_REV_H
DIF_DV_DATA
DIF_DV_CLK
DIF_DV_SEL_REC_L
DV_CUEREV_H
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DIF_SIO_IN
DIF_SIO_CLK_IN
DIF_SIO_REC_L
R3132
1000/J3
A8 A7 A6 A5 A4 A3 A2 A1
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
G1 G2
C3121 0.1/UFV
C3122 0.1/UFV
C3123 0.1/UFV
C3124 0.1/UFV
C3125 0.1/UFV
C3126 0.1/UFV
C3127 0.1/UFV
IC3121 C0JBAZ001777
IC3122 C0JBAZ001777
IC3123 C0JBAZ001777
IC3124 C0JBAZ001777
IC3125 C0JBAZ001777
IC3126 C0JBAZ001777
IC3127 C0JBAZ001777
A
B
C
D
E
F
G
H
I
J
1
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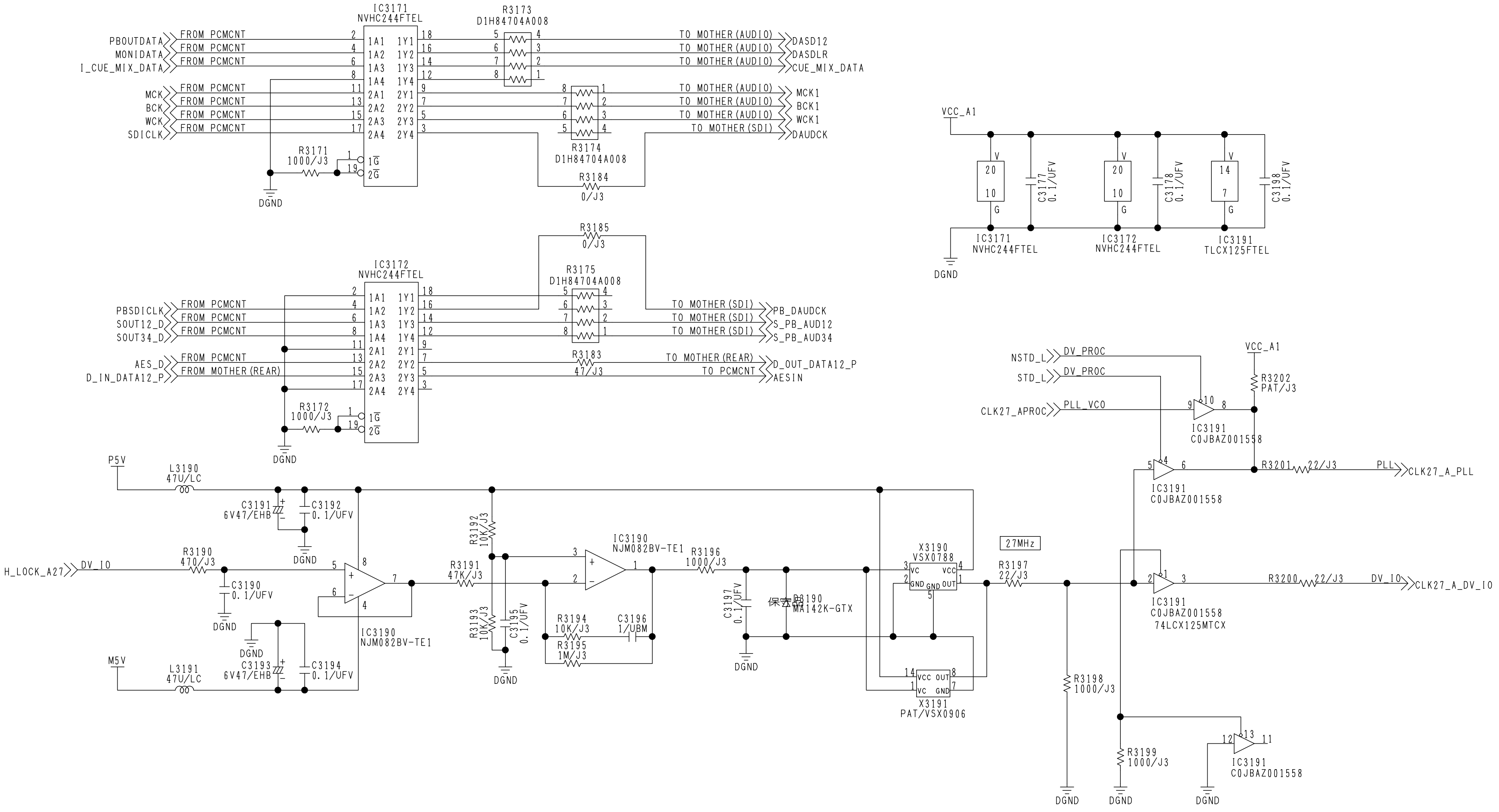
Ref No. 3121-3170

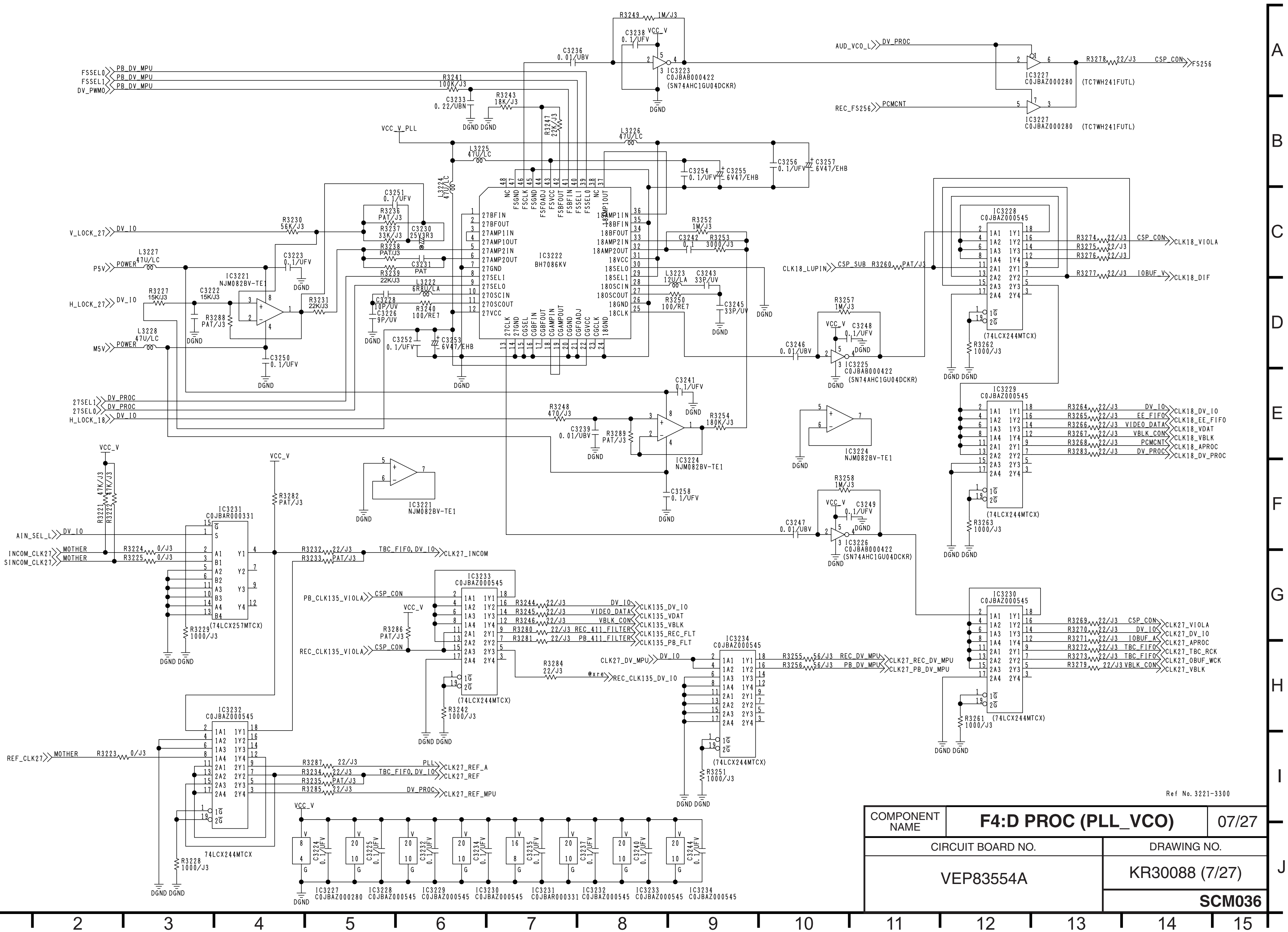
COMPONENT NAME	F4:D PROC (IOBUF_V)	05/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (5/27)	
	SCM034	



IC3171
NVHC244FTEL
R3173
D1H84704A008
PBOUTDATA
FROM PCMCNT
MONIDATA
I_CUE_MIX_DATA
MCK
BCK
WCK
SDICLK
TO MOTHER (AUDIO)
TO MOTHER (SDI)
DASD12
DASDLR
CUE_MIX_DATA
MCK1
BCK1
WCK1
DAUDCK
R3171
1000/J3
R3174
D1H84704A008
R3184
0/J3
DGND
R3185
0/J3
IC3172
NVHC244FTEL
R3175
D1H84704A008
PBSDICLK
SOUT12_D
SOUT34_D
AES_D
D_IN_DATA12_P
FROM MOTHER (REAR)
PB_DAUDCK
S_PB_AUD12
S_PB_AUD34
R3183
47/J3
TO MOTHER (REAR)
TO PCMCNT
D_OUT_DATA12_P
AESIN
R3172
1000/J3
VCC_A1
IC3171
NVHC244FTEL
C3177
0.1/UFV
IC3172
NVHC244FTEL
C3178
0.1/UFV
IC3191
TLCX125FTEL
C3198
0.1/UFV
NSTD_L
STD_L
DV_PROC
CLK27_APROC
PLL_VCO
R3202
PAT/J3
IC3191
C0JBAZ001558
R3201
22/J3
PLL
CLK27_A_PLL
P5V
L3190
47U/LC
C3191
6V47/EHB
C3192
0.1/UFV
H_LOCK_A27
DV_IO
R3190
470/J3
C3190
0.1/UFV
IC3190
NJM082BV-TE1
R3191
47K/J3
R3192
10K/J3
R3193
10K/J3
C3195
0.1/UFV
R3194
10K/J3
R3195
1M/J3
C3196
1/UBM
R3196
1000/J3
C3197
0.1/UFV
保護器
D3190
MA142K-GTX
X3190
VSX0788
27MHz
R3197
22/J3
X3191
PAT/VSX0906
R3198
1000/J3
R3199
1000/J3
R3200
22/J3
CLK27_A_DV_IO
74LCX125MTCX
M5V
L3191
47U/LC
C3193
6V47/EHB
C3194
0.1/UFV

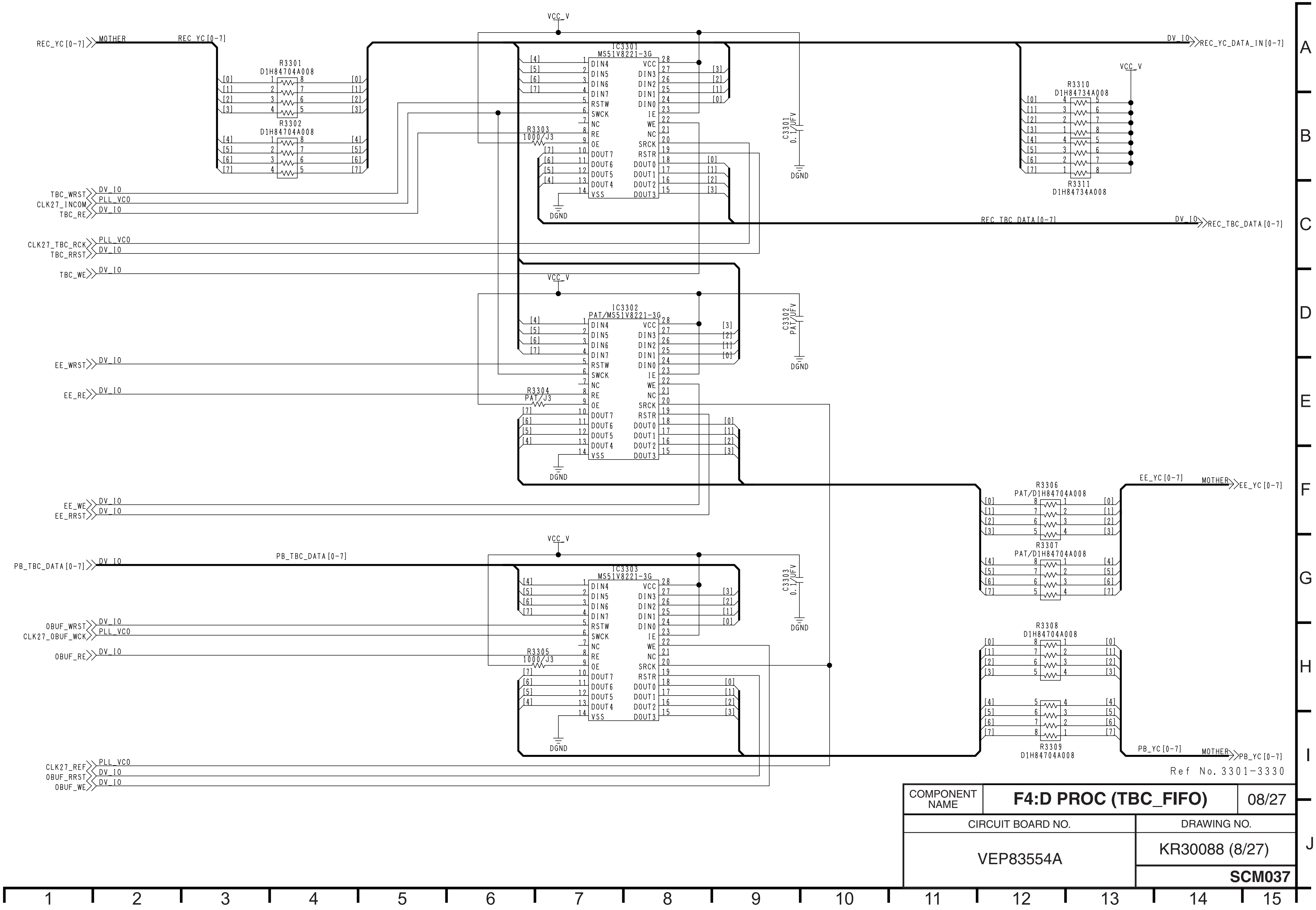
Ref. No. 3171-3220

COMPONENT NAME	F4:D PROC (IOBUF_A)	06/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (6/27)	
	SCM035	


IC3222 BH7086KV
IC3221 NJM082BV-TE1
IC3223 C0JBAB000422 (SN74AHC1GU04DCKR)
IC3227 C0JBAZ000280 (TC7WH241FUTL)
IC3228 C0JBAZ000545 (74LCX244MTCX)
IC3229 C0JBAZ000545 (74LCX244MTCX)
IC3230 C0JBAZ000545 (74LCX244MTCX)
IC3231 C0JBAR000331 (74LCX257MTCX)
IC3232 C0JBAZ000545 74LCX244MTCX
IC3233 C0JBAZ000545 (74LCX244MTCX)
IC3234 C0JBAZ000545 (74LCX244MTCX)
IC3224 NJM082BV-TE1
IC3225 C0JBAB000422 (SN74AHC1GU04DCKR)
IC3226 C0JBAB000422 (SN74AHC1GU04DCKR)
FSSEL0 PB_DV_MPU
FSSEL1 PB_DV_MPU
DV_PWM0 PB_DV_MPU
AUD_VCO_L DV_PROC
REC_FS256 PCMCNT
CSP_CON F5256
VCC_V_PLL
V_LOCK_27 DV_IO
P5V POWER
H_LOCK_27 DV_IO
M5V POWER
27SEL1 DV_PROC
27SEL0 DV_PROC
H_LOCK_18 DV_IO
CLK18_LUPIN CSP_SUB
CSP_CON CLK18_VIOLA
IOBUF_V CLK18_DIF
DV_IO CLK18_DV_IO
EE_FIFO CLK18_EE_FIFO
VIDEO_DATA CLK18_VDAT
VBLK_CON CLK18_VBLK
PCMCNT CLK18_APROC
DV_PROC CLK18_DV_PROC
AIN_SEL_L DV_IO
INCOM_CLK27 MOTHER
SINCOM_CLK27 MOTHER
TBC_FIFO,DV_IO CLK27_INCOM
PB_CLK135_VIOLA CSP_CON
REC_CLK135_VIOLA CSP_CON
DV_IO CLK135_DV_IO
VIDEO_DATA CLK135_VDAT
VBLK_CON CLK135_VBLK
REC_411_FILTER CLK135_REC_FLT
PB_411_FILTER CLK135_PB_FLT
@xre REC_CLK135_DV_IO
CLK27_DV_MPU DV_IO
REC_DV_MPU CLK27_REC_DV_MPU
PB_DV_MPU CLK27_PB_DV_MPU
CSP_CON CLK27_VIOLA
DV_IO CLK27_DV_IO
IOBUF_A CLK27_APROC
TBC_FIFO CLK27_TBC_RCK
TBC_FIFO CLK27_OBUF_WCK
VBLK_CON CLK27_VBLK
REF_CLK27 MOTHER
PLL CLK27_REF_A
TBC_FIFO,DV_IO CLK27_REF
DV_PROC CLK27_REF_MPU
VCC_V
DGND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J

Ref No. 3221-3300

COMPONENT NAME	F4:D PROC (PLL_VCO)	07/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (7/27)	
	SCM036	


REC_YC[0-7]
MOTHER
REC_YC[0-7]
R3301
D1H84704A008
R3302
D1H84704A008
TBC_WRST
CLK27_INCOM
TBC_RE
DV_IO
PLL_VCO
CLK27_TBC_RCK
TBC_RRST
TBC_WE
VCC_V
IC3301
MS51V8221-3G
DIN4
DIN5
DIN6
DIN7
RSTW
SWCK
NC
RE
OE
DOUT7
DOUT6
DOUT5
DOUT4
VSS
VCC
DIN3
DIN2
DIN1
DIN0
IE
WE
SRCK
RSTR
DOUT0
DOUT1
DOUT2
DOUT3
R3303
1000/J3
C3301
0.1/UFV
DGND
DV_IO
REC_YC_DATA_IN[0-7]
R3310
D1H84734A008
R3311
D1H84734A008
REC_TBC_DATA[0-7]
REC_TBC_DATA[0-7]
IC3302
PAT/MS51V8221-3G
C3302
PAT/UFV
R3304
PAT/J3
EE_WRST
EE_RE
EE_WE
EE_RRST
R3306
PAT/D1H84704A008
R3307
PAT/D1H84704A008
EE_YC[0-7]
MOTHER
EE_YC[0-7]
PB_TBC_DATA[0-7]
PB_TBC_DATA[0-7]
IC3303
MS51V8221-3G
C3303
0.1/UFV
R3305
1000/J3
OBUF_WRST
CLK27_OBUF_WCK
OBUF_RE
R3308
D1H84704A008
R3309
D1H84704A008
PB_YC[0-7]
MOTHER
PB_YC[0-7]
CLK27_REF
OBUF_RRST
OBUF_WE
A
B
C
D
E
F
G
H
I
J
1
2
3
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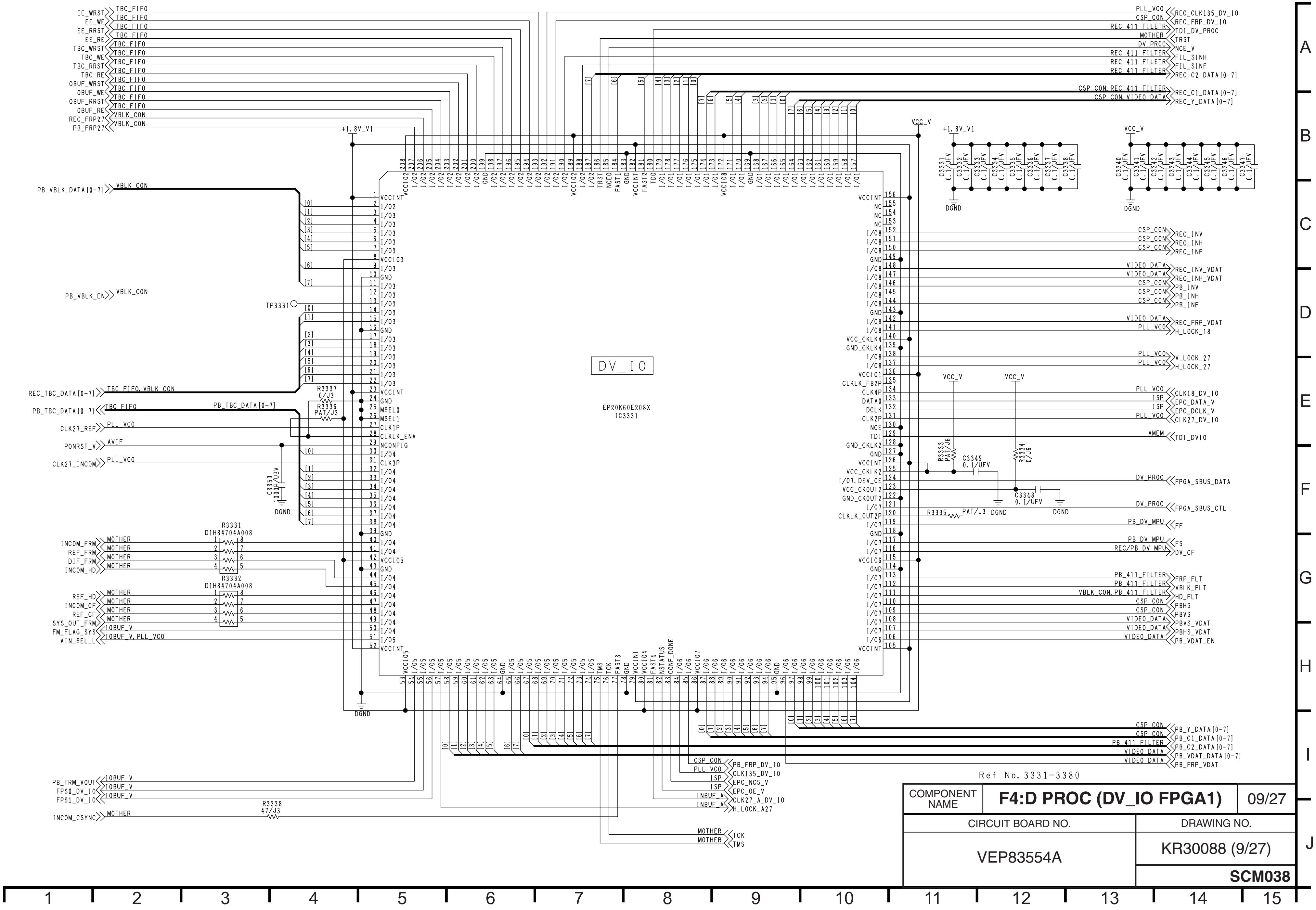
Ref No. 3301-3330

COMPONENT NAME	**F4:D PROC (TBC_FIFO)**	08/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (8/27)	
	SCM037	


DV_IO
EP20K60E208X
IC3331
EE_WRST
EE_WE
EE_RRST
EE_RE
TBC_WRST
TBC_WE
TBC_RRST
TBC_RE
OBUF_WRST
OBUF_WE
OBUF_RRST
OBUF_RE
REC_FRP27
PB_FRP27
TBC_FIFO
VBLK_CON
PB_VBLK_DATA[0-7]
PB_VBLK_EN
TP3331
REC_TBC_DATA[0-7]
TBC_FIFO,VBLK_CON
PB_TBC_DATA[0-7]
CLK27_REF
PONRST_V
CLK27_INCOM
PLL_VCO
AVIF
R3337 0/J3
R3336 PAT/J3
C3350 100P/UBV
DGND
R3331 D1H84704A008
R3332 D1H84704A008
INCOM_FRM
REF_FRM
DIF_FRM
INCOM_HD
REF_HD
INCOM_CF
REF_CF
SYS_OUT_FRM
FM_FLAG_SYS
AIN_SEL_L
MOTHER
IOBUF_V
IOBUF_V,PLL_VCO
PB_FRM_VOUT
FPS0_DV_IO
FPS1_DV_IO
INCOM_CSYNC
R3338 47/J3
+1.8V_V1
VCC_V
REC_CLK135_DV_IO
REC_FRP_DV_IO
TDI_DV_PROC
TRST
NCE_V
FIL_SINH
FIL_SINF
REC_C2_DATA[0-7]
REC_C1_DATA[0-7]
REC_Y_DATA[0-7]
CSP_CON
REC_411_FILTER
MOTHER
DV_PROC
CSP_CON,REC_411_FILTER
CSP_CON,VIDEO_DATA
C3331–C3338 0.1/UFV
C3340–C3347 0.1/UFV
REC_INV
REC_INH
REC_INF
REC_INV_VDAT
REC_INH_VDAT
PB_INV
PB_INH
PB_INF
REC_FRP_VDAT
H_LOCK_18
V_LOCK_27
H_LOCK_27
VIDEO_DATA
CLK18_DV_IO
EPC_DATA_V
EPC_DCLK_V
CLK27_DV_IO
ISP
AMEM
TDI_DVIO
R3333 PAT/J6
R3334 0/J6
C3349 0.1/UFV
C3348 0.1/UFV
FPGA_SBUS_DATA
FPGA_SBUS_CTL
R3335 PAT/J3
PB_DV_MPU
REC/PB_DV_MPU
FF
FS
DV_CF
PB_411_FILTER
VBLK_CON,PB_411_FILTER
FRP_FLT
VBLK_FLT
HD_FLT
PBHS
PBVS
PBVS_VDAT
PBHS_VDAT
PB_VDAT_EN
PB_Y_DATA[0-7]
PB_C1_DATA[0-7]
PB_C2_DATA[0-7]
PB_VDAT_DATA[0-7]
PB_FRP_VDAT
PB_FRP_DV_IO
CLK135_DV_IO
EPC_NCS_V
EPC_OE_V
CLK27_A_DV_IO
H_LOCK_A27
INBUF_A
TCK
TMS
VCCINT
VCCIO1
VCCIO2
VCCIO3
VCCIO4
VCCIO5
VCCIO6
VCCIO7
VCCIO8
GND
MSEL0
MSEL1
CLK1P
CLKLK_ENA
NCONFIG
CLK3P
TRST
NCEO
FAST1
FAST2
FAST3
FAST4
TDO
NSTATUS
CONF_DONE
CLK4P
DATA0
DCLK
CLK2P
NCE
TDI
GND_CLKK2
VCC_CLKK2
VCC_CLKK4
GND_CLKK4
CLKLK_FB2P
VCC_CKOUT2
GND_CKOUT2
CLKLK_OUT2P
I/07,DEV_OE
A
B
C
D
E
F
G
H
I
J
1
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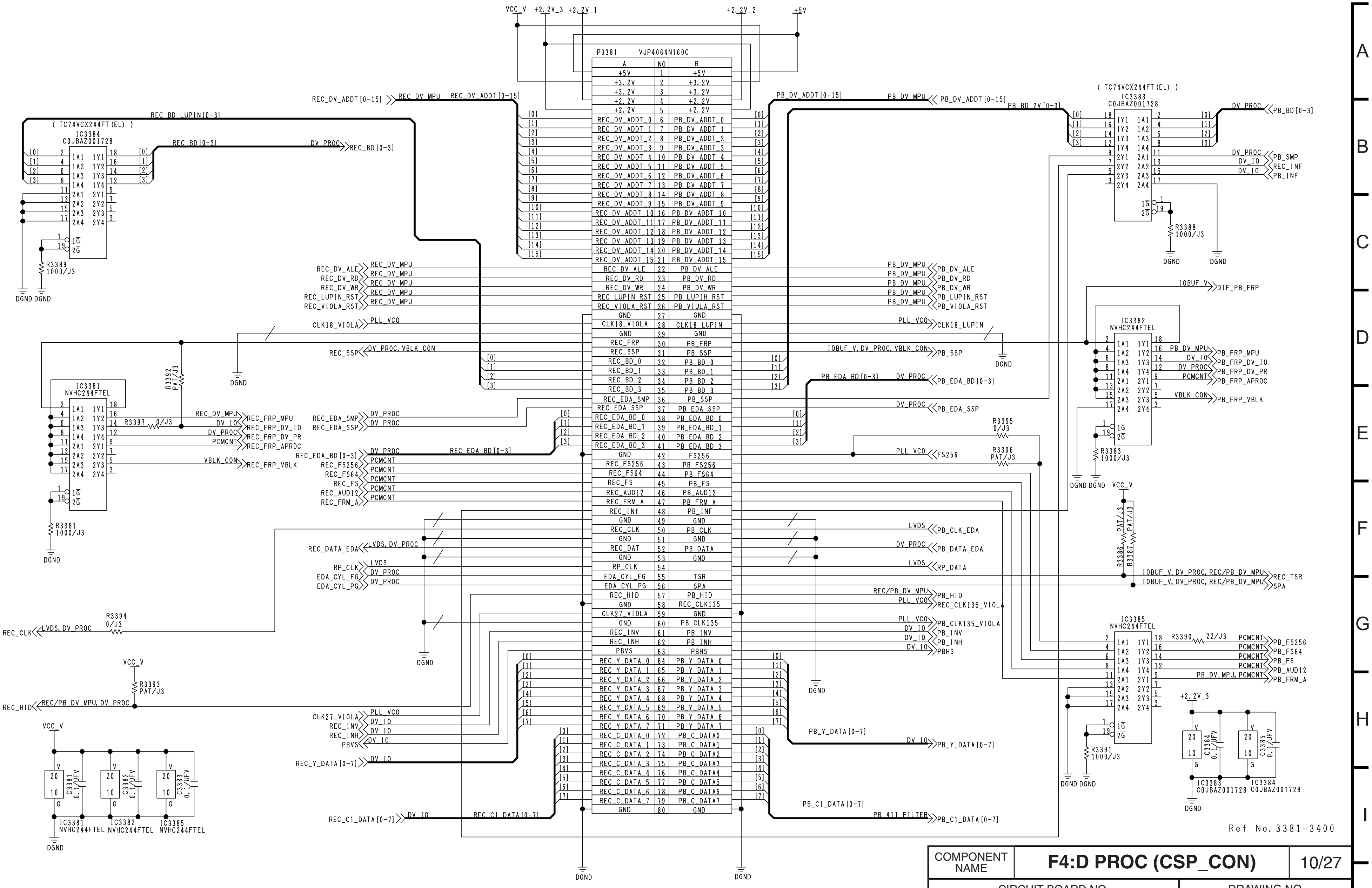
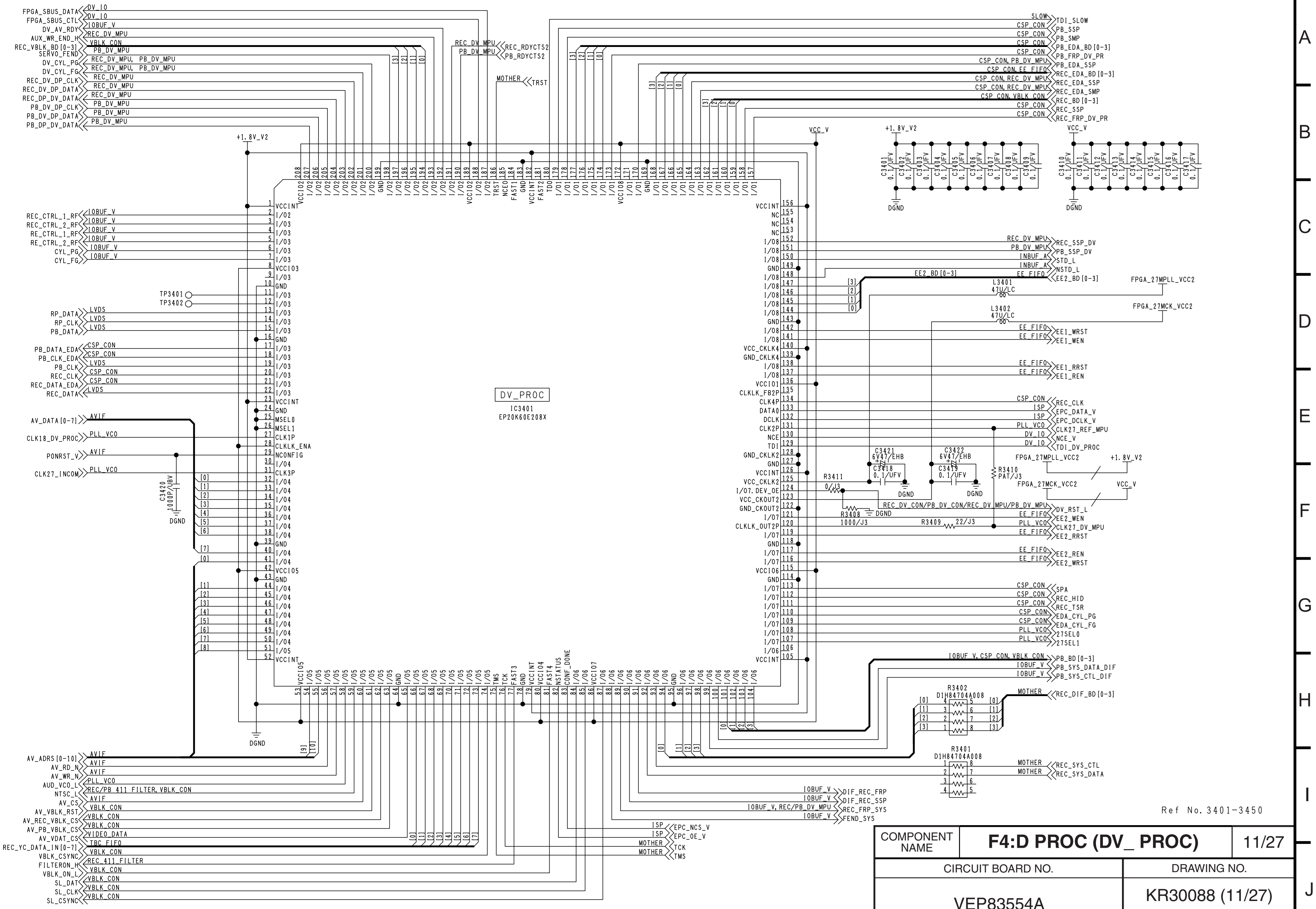
Ref No. 3331-3380

COMPONENT NAME	F4:D PROC (DV_IO FPGA1)	09/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (9/27)	
	SCM038	


P3381 VJP4064N160C
VCC_V
+2.2V_3
+2.2V_1
+2.2V_2
+5V
(TC74VCX244FT(EL))
IC3384
C0JBAZ001728
REC_BD_LUPIN[0-3]
REC_BD[0-3]
DV_PROC
REC_DV_ADDT[0-15]
REC_DV_MPU
PB_DV_ADDT[0-15]
PB_DV_MPU
PB_BD_2V[0-3]
(TC74VCX244FT(EL))
IC3383
C0JBAZ001728
PB_BD[0-3]
PB_SMP
REC_INF
PB_INF
R3388 1000/J3
R3389 1000/J3
REC_DV_ALE
REC_DV_RD
REC_DV_WR
REC_LUPIN_RST
REC_VIOLA_RST
PB_DV_ALE
PB_DV_RD
PB_DV_WR
PB_LUPIN_RST
PB_VIOLA_RST
IOBUF_V
DIF_PB_FRP
CLK18_VIOLA
PLL_VCO
CLK18_LUPIN
IC3382
NVHC244FTEL
REC_SSP
DV_PROC, VBLK_CON
IOBUF_V, DV_PROC, VBLK_CON
PB_SSP
PB_FRP_MPU
PB_FRP_DV_IO
PB_FRP_DV_PR
PB_FRP_APROC
PB_FRP_VBLK
R3392 PAT/J3
IC3381
NVHC244FTEL
R3397 0/J3
REC_FRP_MPU
REC_FRP_DV_IO
REC_FRP_DV_PR
REC_FRP_APROC
REC_FRP_VBLK
PB_EDA_BD[0-3]
PB_EDA_BD[0-3]
PB_EDA_SSP
REC_EDA_SMP
REC_EDA_SSP
REC_EDA_BD[0-3]
R3395 0/J3
R3396 PAT/J3
FS256
R3383 1000/J3
REC_FS256
REC_FS64
REC_FS
REC_AUD12
REC_FRM_A
PCMCNT
R3381 1000/J3
LVDS
PB_CLK_EDA
PB_DATA_EDA
RP_DATA
REC_DATA_EDA
RP_CLK
EDA_CYL_FG
EDA_CYL_PG
R3386 PAT/J3
R3387 PAT/J3
IOBUF_V, DV_PROC, REC/PB_DV_MPU
REC_TSR
SPA
PB_HID
REC_CLK135_VIOLA
PB_CLK135_VIOLA
PB_INV
PB_INH
PBHS
R3394 0/J3
REC_CLK
LVDS, DV_PROC
IC3385
NVHC244FTEL
R3390 22/J3
PB_FS256
PB_FS64
PB_FS
PB_AUD12
PB_FRM_A
R3393 PAT/J3
REC_HID
REC/PB_DV_MPU, DV_PROC
CLK27_VIOLA
REC_INV
REC_INH
PBVS
REC_Y_DATA[0-7]
PB_Y_DATA[0-7]
R3391 1000/J3
C3381 0.1/UFV
C3382 0.1/UFV
C3383 0.1/UFV
C3384 0.1/UFV
C3385 0.1/UFV
IC3381 NVHC244FTEL
IC3382 NVHC244FTEL
IC3385 NVHC244FTEL
IC3383 C0JBAZ001728
IC3384 C0JBAZ001728
REC_C1_DATA[0-7]
PB_C1_DATA[0-7]
PB_411_FILTER
DGND

Ref No. 3381-3400

COMPONENT NAME	F4:D PROC (CSP_CON)	10/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (10/27)	
	SCM039	


DV_PROC
IC3401
EP20K60E208X
FPGA_SBUS_DATA
FPGA_SBUS_CTL
DV_AV_RDY
AUX_WR_END_H
REC_VBLK_BD[0-3]
SERVO_FEND
DV_CYL_PG
DV_CYL_FG
REC_DV_DP_CLK
REC_DV_DP_DATA
REC_DP_DV_DATA
PB_DV_DP_CLK
PB_DV_DP_DATA
PB_DP_DV_DATA
REC_RDYCTS2
PB_RDYCTS2
TRST
+1.8V_V2
VCC_V
REC_CTRL_1_RF
REC_CTRL_2_RF
RE_CTRL_1_RF
RE_CTRL_2_RF
CYL_PG
CYL_FG
TP3401
TP3402
RP_DATA
RP_CLK
PB_DATA
PB_DATA_EDA
PB_CLK_EDA
PB_CLK
REC_CLK
REC_DATA_EDA
REC_DATA
AV_DATA[0-7]
CLK18_DV_PROC
PONRST_V
CLK27_INCOM
C3420
1000P/UBV
DGND
AV_ADRS[0-10]
AV_RD_N
AV_WR_N
AUD_VCO_L
NTSC_L
AV_CS
AV_VBLK_RST
AV_REC_VBLK_CS
AV_PB_VBLK_CS
AV_VDAT_CS
REC_YC_DATA_IN[0-7]
VBLK_CSYNC
FILTERON_H
VBLK_ON_L
SL_DAT
SL_CLK
SL_CSYNC
TDI_SLOW
PB_SSP
PB_SMP
PB_EDA_BD[0-3]
PB_FRP_DV_PR
PB_EDA_SSP
REC_EDA_BD[0-3]
REC_EDA_SSP
REC_EDA_SMP
REC_BD[0-3]
REC_SSP
REC_FRP_DV_PR
C3401 – C3409 0.1/UFV
C3410 – C3417 0.1/UFV
REC_SSP_DV
PB_SSP_DV
STD_L
NSTD_L
EE2_BD[0-3]
L3401 47U/LC
L3402 47U/LC
FPGA_27MPLL_VCC2
FPGA_27MCK_VCC2
EE1_WRST
EE1_WEN
EE1_RRST
EE1_REN
REC_CLK
EPC_DATA_V
EPC_DCLK_V
CLK27_REF_MPU
NCE_V
TDI_DV_PROC
C3421 6V47/EHB
C3422 6V47/EHB
C3418 0.1/UFV
C3419 0.1/UFV
R3410 PAT/J3
R3411 0/J3
R3408 1000/J3
R3409 22/J3
DV_RST_L
EE2_WEN
CLK27_DV_MPU
EE2_RRST
EE2_REN
EE2_WRST
SPA
REC_HID
REC_TSR
EDA_CYL_PG
EDA_CYL_FG
27SEL0
27SEL1
PB_BD[0-3]
PB_SYS_DATA_DIF
PB_SYS_CTL_DIF
REC_DIF_BD[0-3]
R3402 D1H84704A008
R3401 D1H84704A008
REC_SYS_CTL
REC_SYS_DATA
DIF_REC_FRP
DIF_REC_SSP
REC_FRP_SYS
FEND_SYS
EPC_NCS_V
EPC_OE_V
TCK
TMS
A
B
C
D
E
F
G
H
I
J
1
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4
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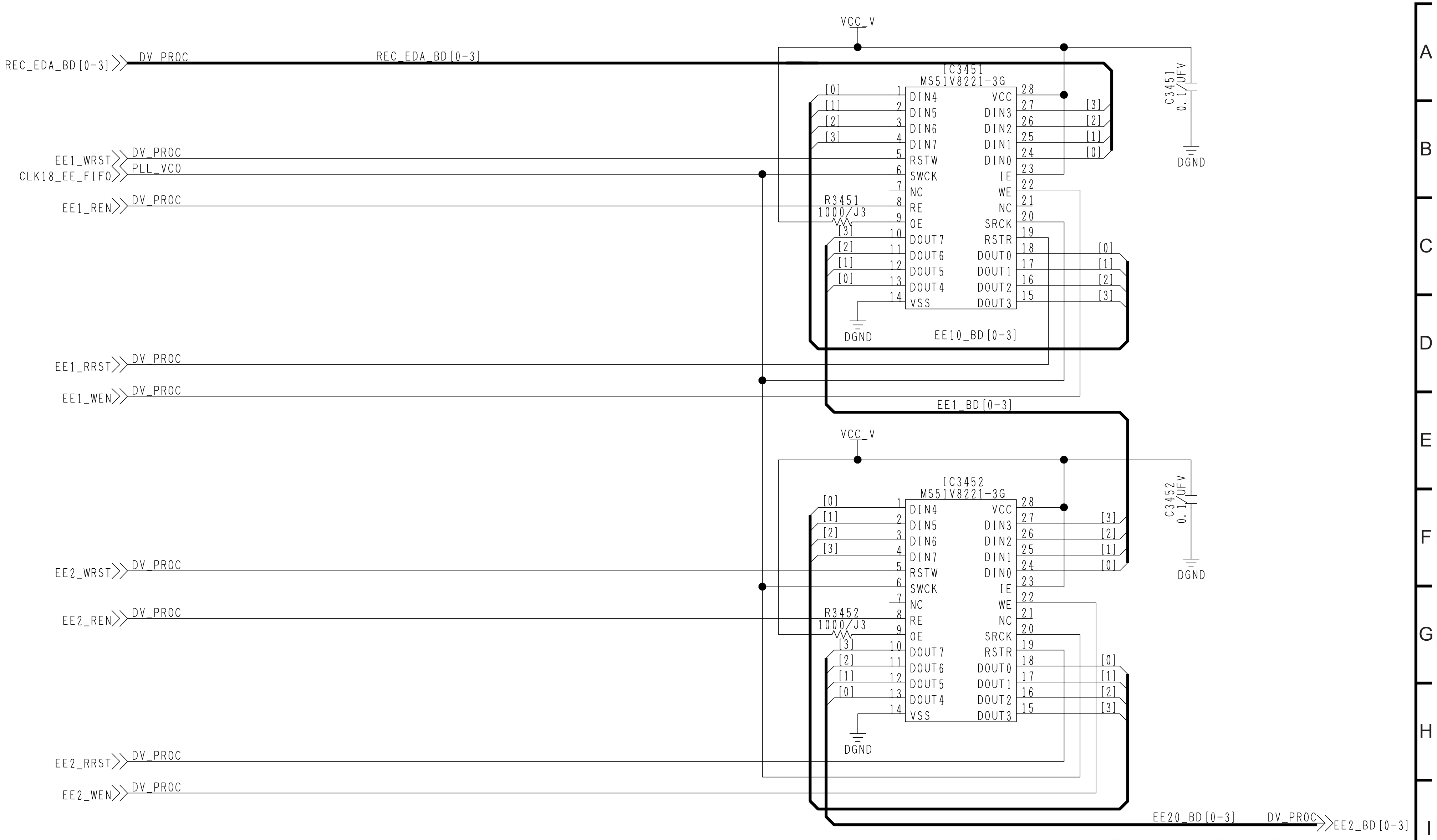
Ref No. 3401-3450

COMPONENT NAME	F4:D PROC (DV_ PROC)	11/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (11/27)	
	SCM040	


VCC_V
REC_EDA_BD[0-3]
DV_PROC
REC_EDA_BD[0-3]
IC3451
MS51V8221-3G
DIN4
DIN5
DIN6
DIN7
RSTW
SWCK
NC
RE
OE
DOUT7
DOUT6
DOUT5
DOUT4
VSS
VCC
DIN3
DIN2
DIN1
DIN0
IE
WE
NC
SRCK
RSTR
DOUT0
DOUT1
DOUT2
DOUT3
C3451
0.1/UFV
DGND
EE1_WRST
DV_PROC
CLK18_EE_FIFO
PLL_VCO
EE1_REN
DV_PROC
R3451
1000/J3
DGND
EE10_BD[0-3]
EE1_RRST
DV_PROC
EE1_WEN
DV_PROC
EE1_BD[0-3]
VCC_V
IC3452
MS51V8221-3G
C3452
0.1/UFV
DGND
EE2_WRST
DV_PROC
EE2_REN
DV_PROC
R3452
1000/J3
DGND
EE2_RRST
DV_PROC
EE2_WEN
DV_PROC
EE20_BD[0-3]
DV_PROC
EE2_BD[0-3]
A
B
C
D
E
F
G
H
I
J
1
2
3
4
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9
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12
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14
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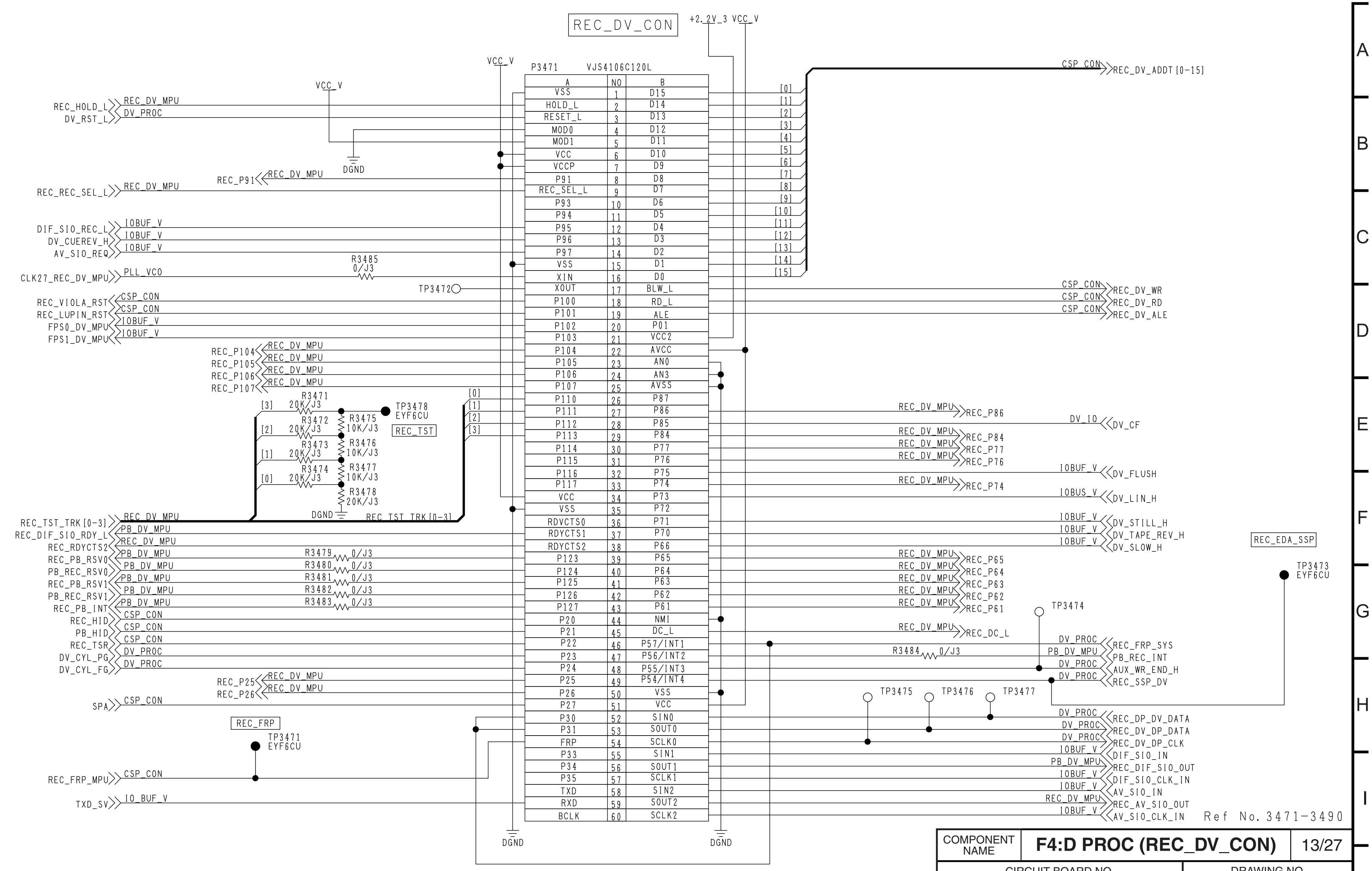
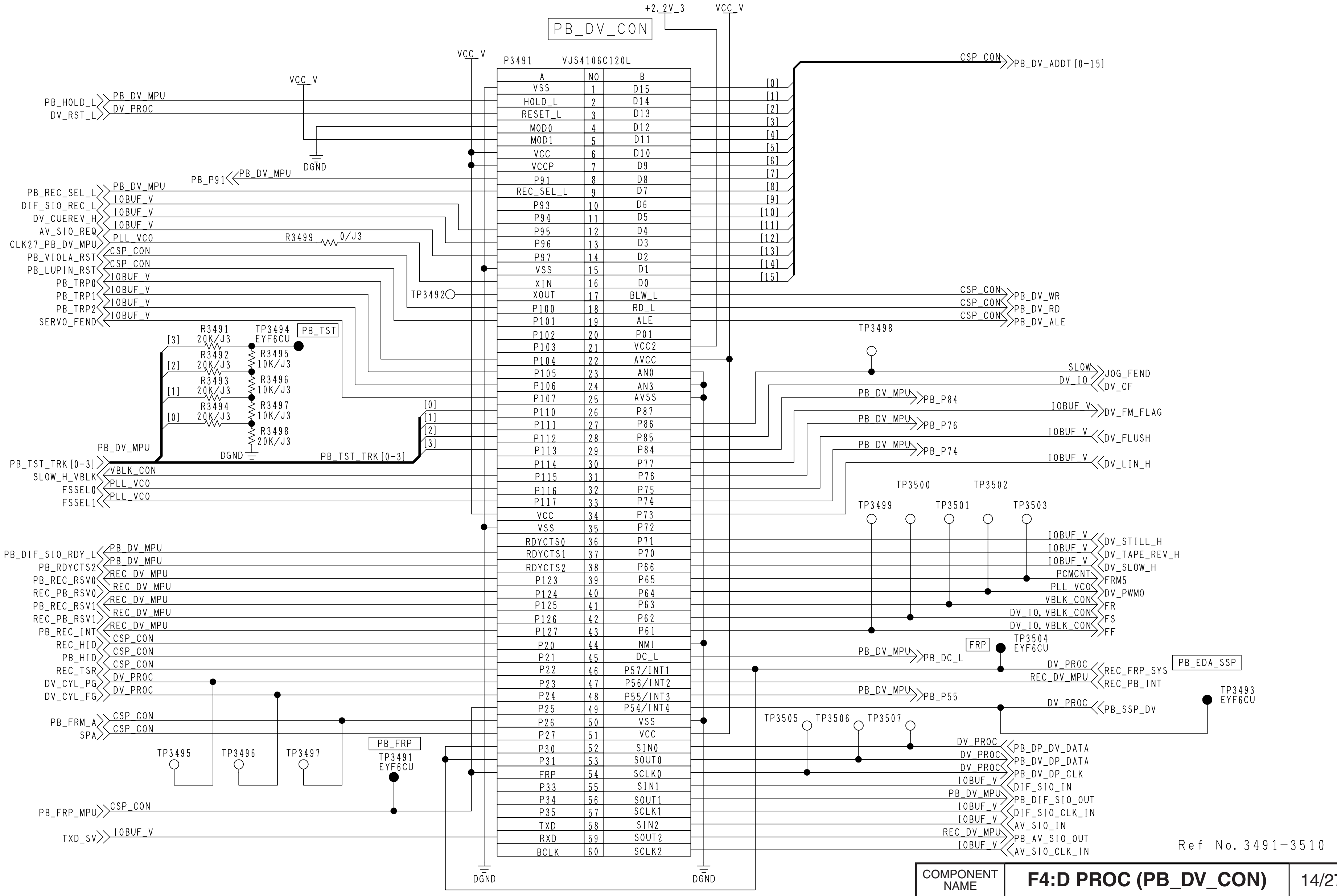
Ref No. 3451-3470

COMPONENT NAME	**F4:D PROC (EE_FIFO)**	12/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (12/27)	
	SCM041	


REC_DV_CON
+2.2V_3
VCC_V
P3471
VJS4106C120L
A
NO
B
VSS 1 D15
HOLD_L 2 D14
RESET_L 3 D13
MOD0 4 D12
MOD1 5 D11
VCC 6 D10
VCCP 7 D9
P91 8 D8
REC_SEL_L 9 D7
P93 10 D6
P94 11 D5
P95 12 D4
P96 13 D3
P97 14 D2
VSS 15 D1
XIN 16 D0
XOUT 17 BLW_L
P100 18 RD_L
P101 19 ALE
P102 20 P01
P103 21 VCC2
P104 22 AVCC
P105 23 AN0
P106 24 AN3
P107 25 AVSS
P110 26 P87
P111 27 P86
P112 28 P85
P113 29 P84
P114 30 P77
P115 31 P76
P116 32 P75
P117 33 P74
VCC 34 P73
VSS 35 P72
RDYCTS0 36 P71
RDYCTS1 37 P70
RDYCTS2 38 P66
P123 39 P65
P124 40 P64
P125 41 P63
P126 42 P62
P127 43 P61
P20 44 NMI
P21 45 DC_L
P22 46 P57/INT1
P23 47 P56/INT2
P24 48 P55/INT3
P25 49 P54/INT4
P26 50 VSS
P27 51 VCC
P30 52 SIN0
P31 53 SOUT0
FRP 54 SCLK0
P33 55 SIN1
P34 56 SOUT1
P35 57 SCLK1
TXD 58 SIN2
RXD 59 SOUT2
BCLK 60 SCLK2
REC_HOLD_L REC_DV_MPU
DV_RST_L DV_PROC
VCC_V
DGND
REC_P91 REC_DV_MPU
REC_REC_SEL_L REC_DV_MPU
DIF_SIO_REC_L IOBUF_V
DV_CUEREV_H IOBUF_V
AV_SIO_REQ IOBUF_V
R3485 0/J3
CLK27_REC_DV_MPU PLL_VCO
TP3472
REC_VIOLA_RST CSP_CON
REC_LUPIN_RST CSP_CON
FPS0_DV_MPU IOBUF_V
FPS1_DV_MPU IOBUF_V
REC_P104 REC_DV_MPU
REC_P105 REC_DV_MPU
REC_P106 REC_DV_MPU
REC_P107 REC_DV_MPU
R3471 20K/J3
R3472 20K/J3
R3473 20K/J3
R3474 20K/J3
R3475 10K/J3
R3476 10K/J3
R3477 10K/J3
R3478 20K/J3
TP3478 EYF6CU
REC_TST
[0] [1] [2] [3]
DGND
REC_TST_TRK[0-3]
REC_TST_TRK[0-3] REC_DV_MPU
REC_DIF_SIO_RDY_L PB_DV_MPU
REC_RDYCTS2 REC_DV_MPU
REC_PB_RSV0 PB_DV_MPU
PB_REC_RSV0 PB_DV_MPU
REC_PB_RSV1 PB_DV_MPU
PB_REC_RSV1 PB_DV_MPU
REC_PB_INT PB_DV_MPU
R3479 0/J3
R3480 0/J3
R3481 0/J3
R3482 0/J3
R3483 0/J3
REC_HID CSP_CON
PB_HID CSP_CON
REC_TSR CSP_CON
DV_CYL_PG DV_PROC
DV_CYL_FG DV_PROC
REC_P25 REC_DV_MPU
REC_P26 REC_DV_MPU
SPA CSP_CON
REC_FRP
TP3471 EYF6CU
REC_FRP_MPU CSP_CON
TXD_SV IO_BUF_V
DGND
DGND
CSP_CON REC_DV_ADDT[0-15]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]
CSP_CON REC_DV_WR
CSP_CON REC_DV_RD
CSP_CON REC_DV_ALE
REC_DV_MPU REC_P86
DV_IO DV_CF
REC_DV_MPU REC_P84
REC_DV_MPU REC_P77
REC_DV_MPU REC_P76
IOBUF_V DV_FLUSH
REC_DV_MPU REC_P74
IOBUS_V DV_LIN_H
IOBUF_V DV_STILL_H
IOBUF_V DV_TAPE_REV_H
IOBUF_V DV_SLOW_H
REC_EDA_SSP
TP3473 EYF6CU
REC_DV_MPU REC_P65
REC_DV_MPU REC_P64
REC_DV_MPU REC_P63
REC_DV_MPU REC_P62
REC_DV_MPU REC_P61
TP3474
REC_DV_MPU REC_DC_L
DV_PROC REC_FRP_SYS
R3484 0/J3
PB_DV_MPU PB_REC_INT
DV_PROC AUX_WR_END_H
DV_PROC REC_SSP_DV
TP3475
TP3476
TP3477
DV_PROC REC_DP_DV_DATA
DV_PROC REC_DV_DP_DATA
DV_PROC REC_DV_DP_CLK
IOBUF_V DIF_SIO_IN
PB_DV_MPU REC_DIF_SIO_OUT
IOBUF_V DIF_SIO_CLK_IN
IOBUF_V AV_SIO_IN
REC_DV_MPU REC_AV_SIO_OUT
IOBUF_V AV_SIO_CLK_IN
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

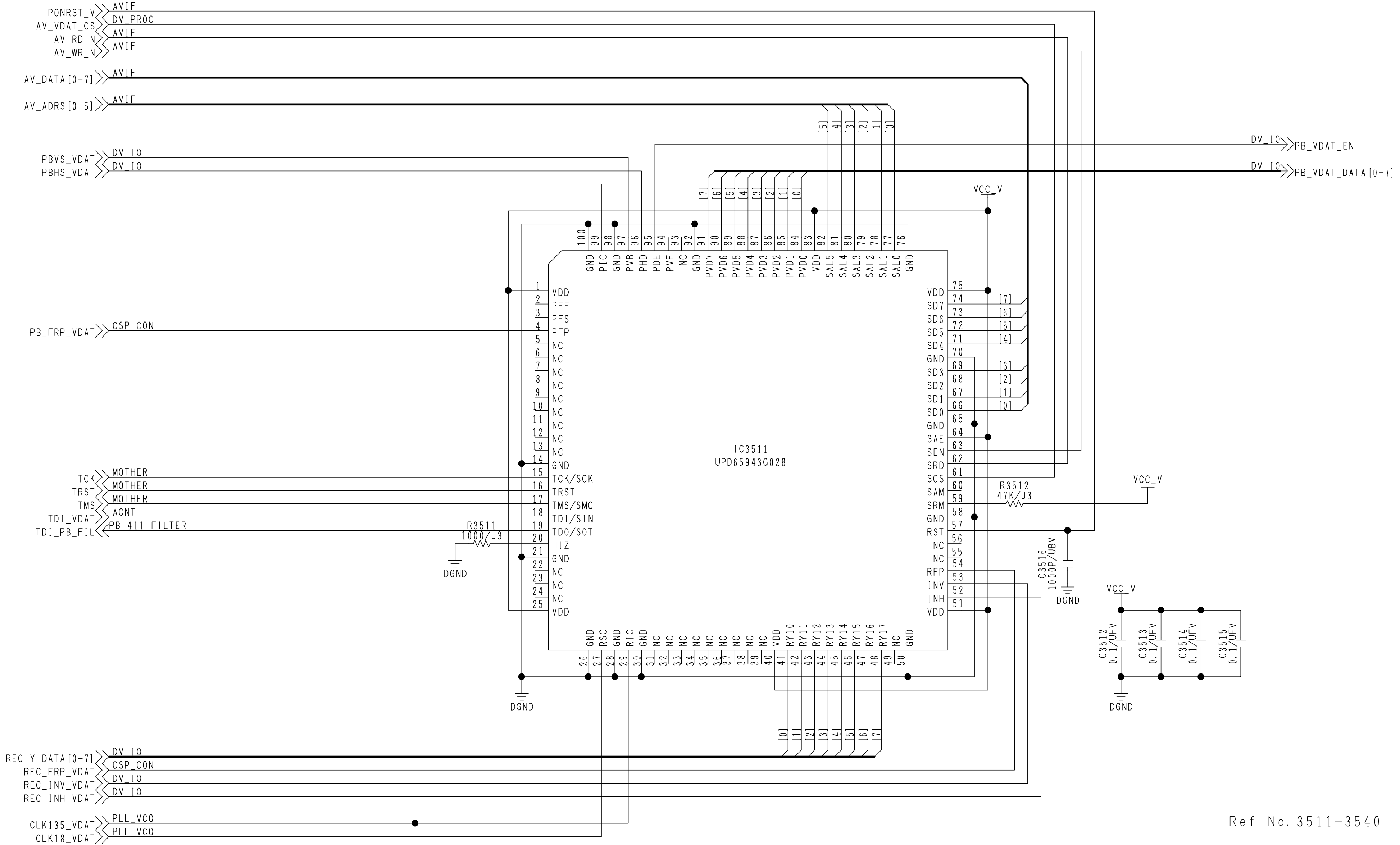
Ref No. 3471-3490

COMPONENT NAME	F4:D PROC (REC_DV_CON)	13/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (13/27)	
	SCM042	


PB_DV_CON
P3491 VJS4106C120L
+2.2V_3
VCC_V
A | NO | B
VSS 1 D15
HOLD_L 2 D14
RESET_L 3 D13
MOD0 4 D12
MOD1 5 D11
VCC 6 D10
VCCP 7 D9
P91 8 D8
REC_SEL_L 9 D7
P93 10 D6
P94 11 D5
P95 12 D4
P96 13 D3
P97 14 D2
VSS 15 D1
XIN 16 D0
XOUT 17 BLW_L
P100 18 RD_L
P101 19 ALE
P102 20 P01
P103 21 VCC2
P104 22 AVCC
P105 23 AN0
P106 24 AN3
P107 25 AVSS
P110 26 P87
P111 27 P86
P112 28 P85
P113 29 P84
P114 30 P77
P115 31 P76
P116 32 P75
P117 33 P74
VCC 34 P73
VSS 35 P72
RDYCTS0 36 P71
RDYCTS1 37 P70
RDYCTS2 38 P66
P123 39 P65
P124 40 P64
P125 41 P63
P126 42 P62
P127 43 P61
P20 44 NMI
P21 45 DC_L
P22 46 P57/INT1
P23 47 P56/INT2
P24 48 P55/INT3
P25 49 P54/INT4
P26 50 VSS
P27 51 VCC
P30 52 SIN0
P31 53 SOUT0
FRP 54 SCLK0
P33 55 SIN1
P34 56 SOUT1
P35 57 SCLK1
TXD 58 SIN2
RXD 59 SOUT2
BCLK 60 SCLK2
PB_HOLD_L PB_DV_MPU
DV_RST_L DV_PROC
VCC_V
DGND
PB_P91 PB_DV_MPU
PB_REC_SEL_L PB_DV_MPU
DIF_SIO_REC_L IOBUF_V
DV_CUEREV_H IOBUF_V
AV_SIO_REQ IOBUF_V
CLK27_PB_DV_MPU PLL_VCO
R3499 0/J3
PB_VIOLA_RST CSP_CON
PB_LUPIN_RST CSP_CON
PB_TRP0 IOBUF_V
PB_TRP1 IOBUF_V
PB_TRP2 IOBUF_V
SERVO_FEND IOBUF_V
TP3492
R3491 20K/J3
R3492 20K/J3
R3493 20K/J3
R3494 20K/J3
R3495 10K/J3
R3496 10K/J3
R3497 10K/J3
R3498 20K/J3
TP3494 EYF6CU
PB_TST
[3] [2] [1] [0]
PB_DV_MPU
PB_TST_TRK[0-3]
SLOW_H_VBLK VBLK_CON
FSSEL0 PLL_VCO
FSSEL1 PLL_VCO
PB_DIF_SIO_RDY_L PB_DV_MPU
PB_RDYCTS2 PB_DV_MPU
PB_REC_RSV0 REC_DV_MPU
REC_PB_RSV0 REC_DV_MPU
PB_REC_RSV1 REC_DV_MPU
REC_PB_RSV1 REC_DV_MPU
PB_REC_INT REC_DV_MPU
REC_HID CSP_CON
PB_HID CSP_CON
REC_TSR CSP_CON
DV_CYL_PG DV_PROC
DV_CYL_FG DV_PROC
PB_FRM_A CSP_CON
SPA CSP_CON
TP3495
TP3496
TP3497
PB_FRP
TP3491 EYF6CU
PB_FRP_MPU CSP_CON
TXD_SV IOBUF_V
DGND
[0]–[15]
CSP_CON PB_DV_ADDT[0-15]
CSP_CON PB_DV_WR
CSP_CON PB_DV_RD
CSP_CON PB_DV_ALE
TP3498
SLOW JOG_FEND
DV_IO DV_CF
PB_DV_MPU PB_P84
IOBUF_V DV_FM_FLAG
PB_DV_MPU PB_P76
IOBUF_V DV_FLUSH
PB_DV_MPU PB_P74
IOBUF_V DV_LIN_H
TP3499 TP3500 TP3501 TP3502 TP3503
IOBUF_V DV_STILL_H
IOBUF_V DV_TAPE_REV_H
IOBUF_V DV_SLOW_H
PCMCNT FRM5
PLL_VCO DV_PWM0
VBLK_CON FR
DV_IO, VBLK_CON FS
DV_IO, VBLK_CON FF
FRP
TP3504 EYF6CU
PB_DV_MPU PB_DC_L
DV_PROC REC_FRP_SYS
REC_DV_MPU REC_PB_INT
PB_EDA_SSP
PB_DV_MPU PB_P55
DV_PROC PB_SSP_DV
TP3493 EYF6CU
TP3505 TP3506 TP3507
DV_PROC PB_DP_DV_DATA
DV_PROC PB_DV_DP_DATA
DV_PROC PB_DV_DP_CLK
IOBUF_V DIF_SIO_IN
PB_DV_MPU PB_DIF_SIO_OUT
IOBUF_V DIF_SIO_CLK_IN
IOBUF_V AV_SIO_IN
REC_DV_MPU PB_AV_SIO_OUT
IOBUF_V AV_SIO_CLK_IN
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Ref No. 3491-3510

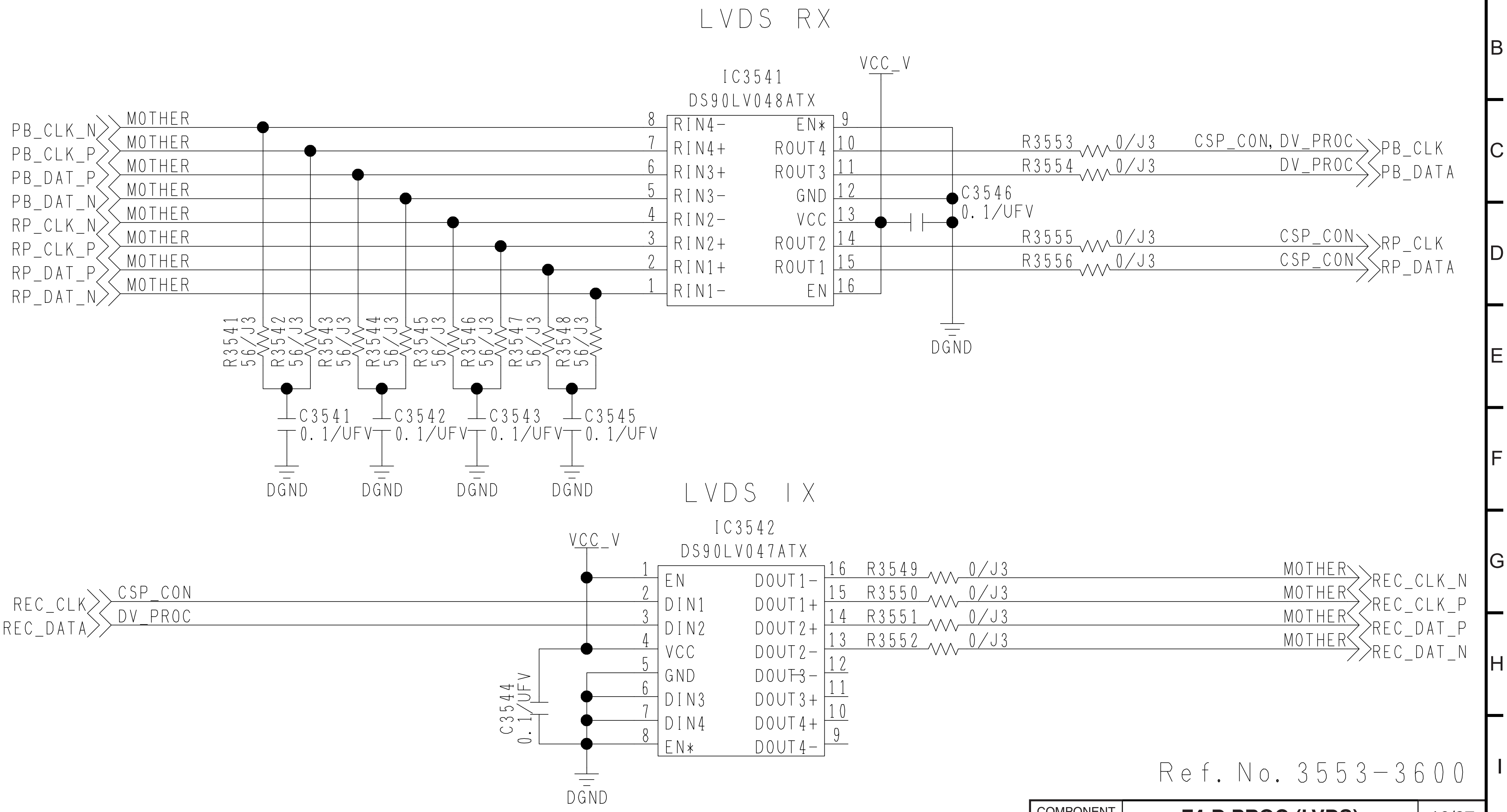
COMPONENT NAME	F4:D PROC (PB_DV_CON)	14/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (14/27)	
	SCM043	



PONRST_V
AV_VDAT_CS
AV_RD_N
AV_WR_N
AV_DATA[0-7]
AV_ADRS[0-5]
AVIF
DV_PROC
PBVS_VDAT
PBHS_VDAT
DV_IO
PB_FRP_VDAT
CSP_CON
TCK
TRST
TMS
TDI_VDAT
TDI_PB_FIL
MOTHER
ACNT
PB_411_FILTER
R3511
1000/J3
DGND
REC_Y_DATA[0-7]
REC_FRP_VDAT
REC_INV_VDAT
REC_INH_VDAT
CLK135_VDAT
CLK18_VDAT
PLL_VCO
PB_VDAT_EN
PB_VDAT_DATA[0-7]
VCC_V
IC3511
UPD65943G028
1 VDD
2 PFF
3 PFS
4 PFP
5 NC
6 NC
7 NC
8 NC
9 NC
10 NC
11 NC
12 NC
13 NC
14 GND
15 TCK/SCK
16 TRST
17 TMS/SMC
18 TDI/SIN
19 TDO/SOT
20 HIZ
21 GND
22 NC
23 NC
24 NC
25 VDD
26 GND
27 RSC
28 GND
29 RIC
30 GND
31 NC
32 NC
33 NC
34 NC
35 NC
36 NC
37 NC
38 NC
39 NC
40 VDD
41 RY10
42 RY11
43 RY12
44 RY13
45 RY14
46 RY15
47 RY16
48 RY17
49 NC
50 GND
51 VDD
52 INH
53 INV
54 RFP
55 NC
56 NC
57 RST
58 GND
59 SRM
60 SAM
61 SCS
62 SRD
63 SEN
64 SAE
65 GND
66 SD0
67 SD1
68 SD2
69 SD3
70 GND
71 SD4
72 SD5
73 SD6
74 SD7
75 VDD
76 GND
77 SAL0
78 SAL1
79 SAL2
80 SAL3
81 SAL4
82 SAL5
83 VDD
84 PVD0
85 PVD1
86 PVD2
87 PVD3
88 PVD4
89 PVD5
90 PVD6
91 PVD7
92 GND
93 NC
94 PVE
95 PDE
96 PHD
97 PVB
98 GND
99 PIC
100 GND
R3512
47K/J3
C3516
1000P/UBV
C3512
0.1/UFV
C3513
0.1/UFV
C3514
0.1/UFV
C3515
0.1/UFV

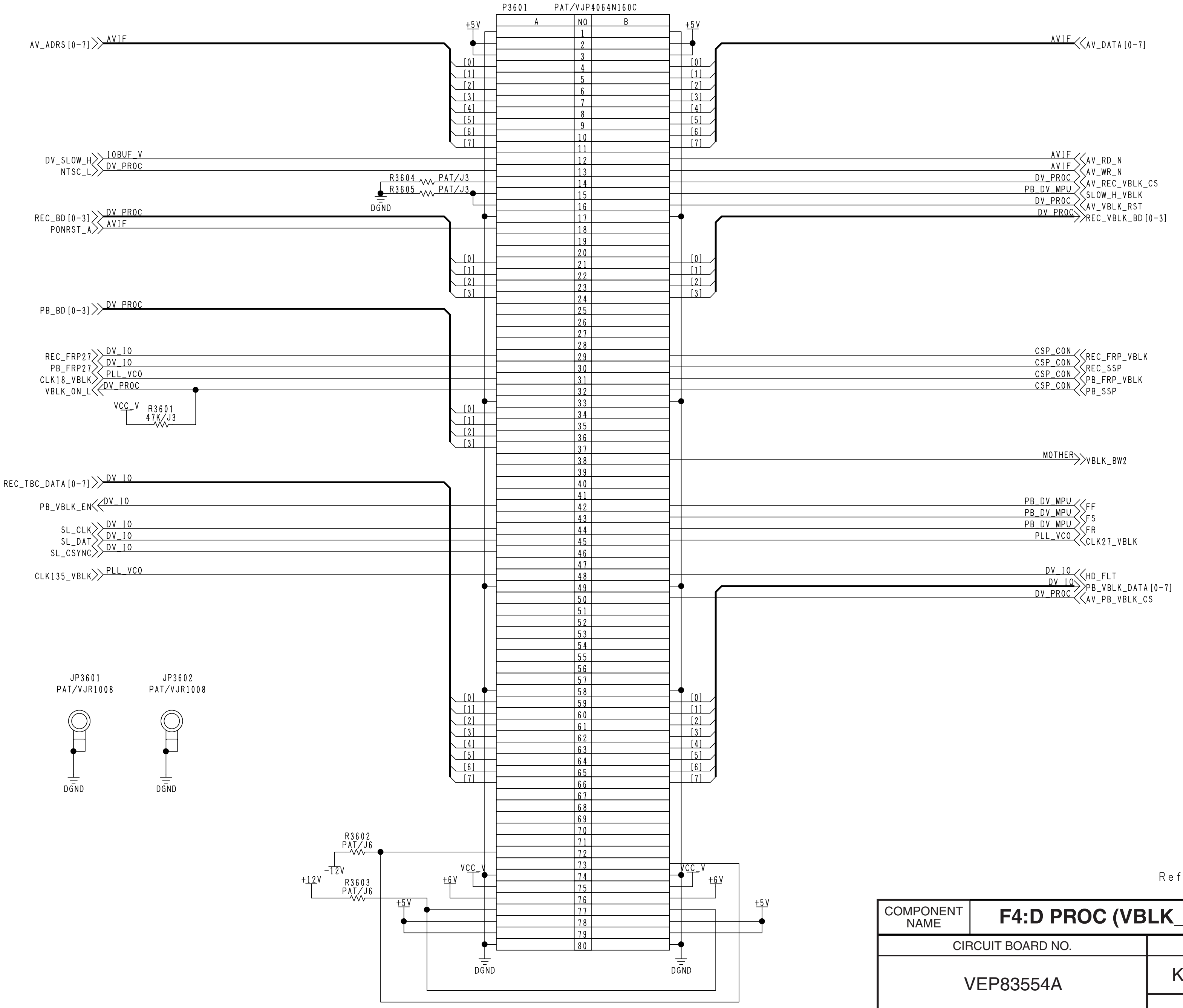
Ref No. 3511-3540

COMPONENT NAME	F4:D PROC (VIDEO DATA VITC/CC)	15/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (15/27)	
	SCM044	


LVDS RX
IC3541
DS90LV048ATX
VCC_V
PB_CLK_N
PB_CLK_P
PB_DAT_P
PB_DAT_N
RP_CLK_N
RP_CLK_P
RP_DAT_P
RP_DAT_N
MOTHER
MOTHER
MOTHER
MOTHER
MOTHER
MOTHER
MOTHER
MOTHER
8 RIN4-
7 RIN4+
6 RIN3+
5 RIN3-
4 RIN2-
3 RIN2+
2 RIN1+
1 RIN1-
EN* 9
ROUT4 10
ROUT3 11
GND 12
VCC 13
ROUT2 14
ROUT1 15
EN 16
C3546
0.1/UFV
DGND
R3553 0/J3
R3554 0/J3
R3555 0/J3
R3556 0/J3
CSP_CON, DV_PROC
DV_PROC
CSP_CON
CSP_CON
PB_CLK
PB_DATA
RP_CLK
RP_DATA
R3541 56/J3
R3542 56/J3
R3543 56/J3
R3544 56/J3
R3545 56/J3
R3546 56/J3
R3547 56/J3
R3548 56/J3
C3541 0.1/UFV
C3542 0.1/UFV
C3543 0.1/UFV
C3545 0.1/UFV
DGND
DGND
DGND
DGND
LVDS TX
IC3542
DS90LV047ATX
VCC_V
REC_CLK
REC_DATA
CSP_CON
DV_PROC
1 EN
2 DIN1
3 DIN2
4 VCC
5 GND
6 DIN3
7 DIN4
8 EN*
DOUT1- 16
DOUT1+ 15
DOUT2+ 14
DOUT2- 13
DOUT3- 12
DOUT3+ 11
DOUT4+ 10
DOUT4- 9
C3544 0.1/UFV
DGND
R3549 0/J3
R3550 0/J3
R3551 0/J3
R3552 0/J3
MOTHER
MOTHER
MOTHER
MOTHER
REC_CLK_N
REC_CLK_P
REC_DAT_P
REC_DAT_N
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

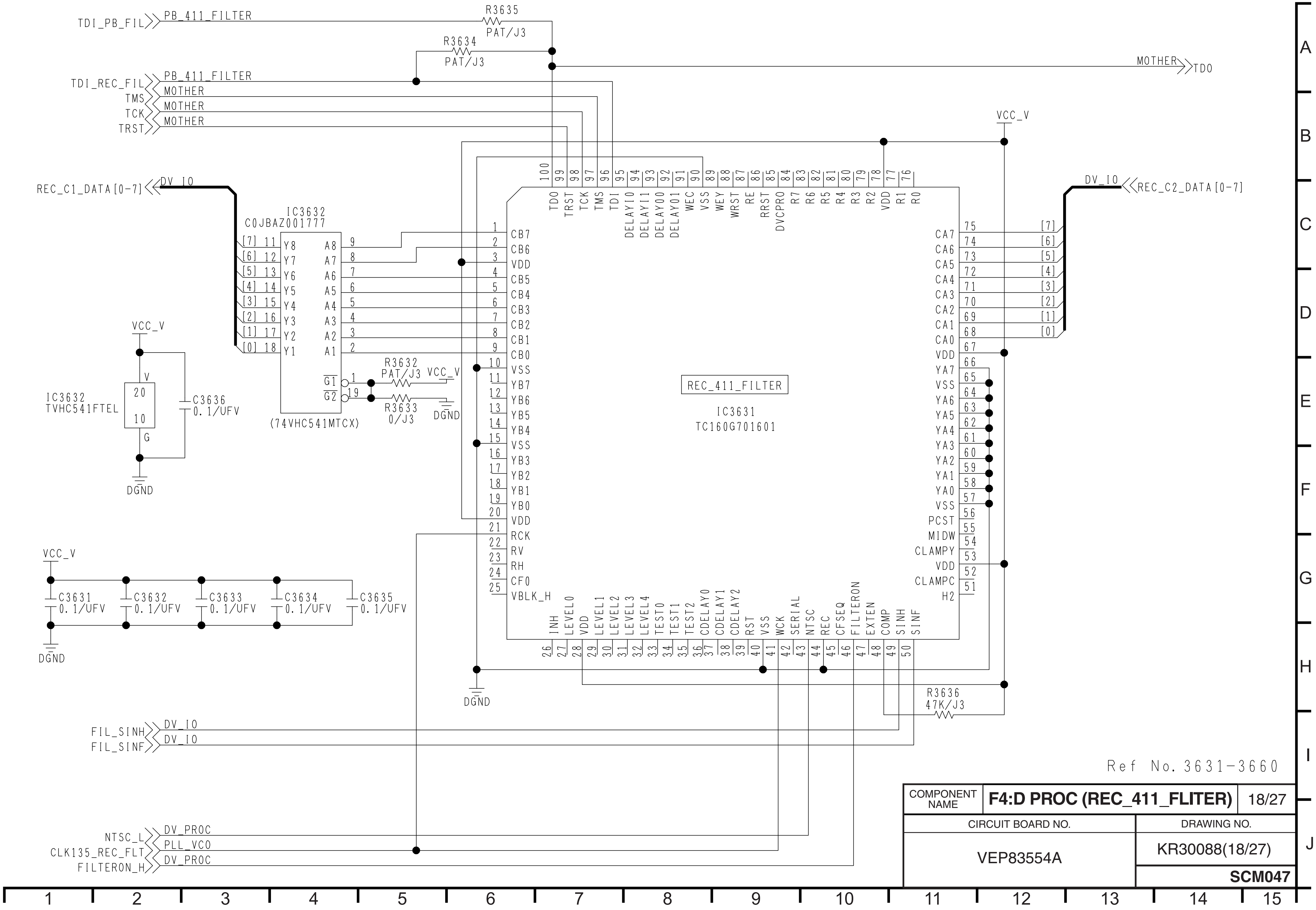
Ref. No. 3553-3600

COMPONENT NAME	F4:D PROC (LVDS)	16/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (16/27)	
	SCM045	


P3601
PAT/VJP4064N160C
A
NO
B
+5V
AV_ADRS[0-7]
AVIF
AVIF
AV_DATA[0-7]
[0]
[1]
[2]
[3]
[4]
[5]
[6]
[7]
DV_SLOW_H
IOBUF_V
NTSC_L
DV_PROC
R3604
PAT/J3
R3605
PAT/J3
DGND
REC_BD[0-3]
DV_PROC
PONRST_A
AVIF
AVIF
AV_RD_N
AVIF
AV_WR_N
DV_PROC
AV_REC_VBLK_CS
PB_DV_MPU
SLOW_H_VBLK
DV_PROC
AV_VBLK_RST
DV_PROC
REC_VBLK_BD[0-3]
PB_BD[0-3]
DV_PROC
REC_FRP27
DV_IO
PB_FRP27
DV_IO
CLK18_VBLK
PLL_VCO
VBLK_ON_L
DV_PROC
VCC_V
R3601
47K/J3
CSP_CON
REC_FRP_VBLK
CSP_CON
REC_SSP
CSP_CON
PB_FRP_VBLK
CSP_CON
PB_SSP
MOTHER
VBLK_BW2
REC_TBC_DATA[0-7]
DV_IO
PB_VBLK_EN
DV_IO
SL_CLK
DV_IO
SL_DAT
DV_IO
SL_CSYNC
DV_IO
CLK135_VBLK
PLL_VCO
PB_DV_MPU
FF
PB_DV_MPU
FS
PB_DV_MPU
FR
PLL_VCO
CLK27_VBLK
DV_IO
HD_FLT
DV_IO
PB_VBLK_DATA[0-7]
DV_PROC
AV_PB_VBLK_CS
JP3601
PAT/VJR1008
DGND
JP3602
PAT/VJR1008
DGND
R3602
PAT/J6
-12V
+12V
R3603
PAT/J6
VCC_V
+6V
+5V
VCC_V
+6V
+5V
DGND
DGND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

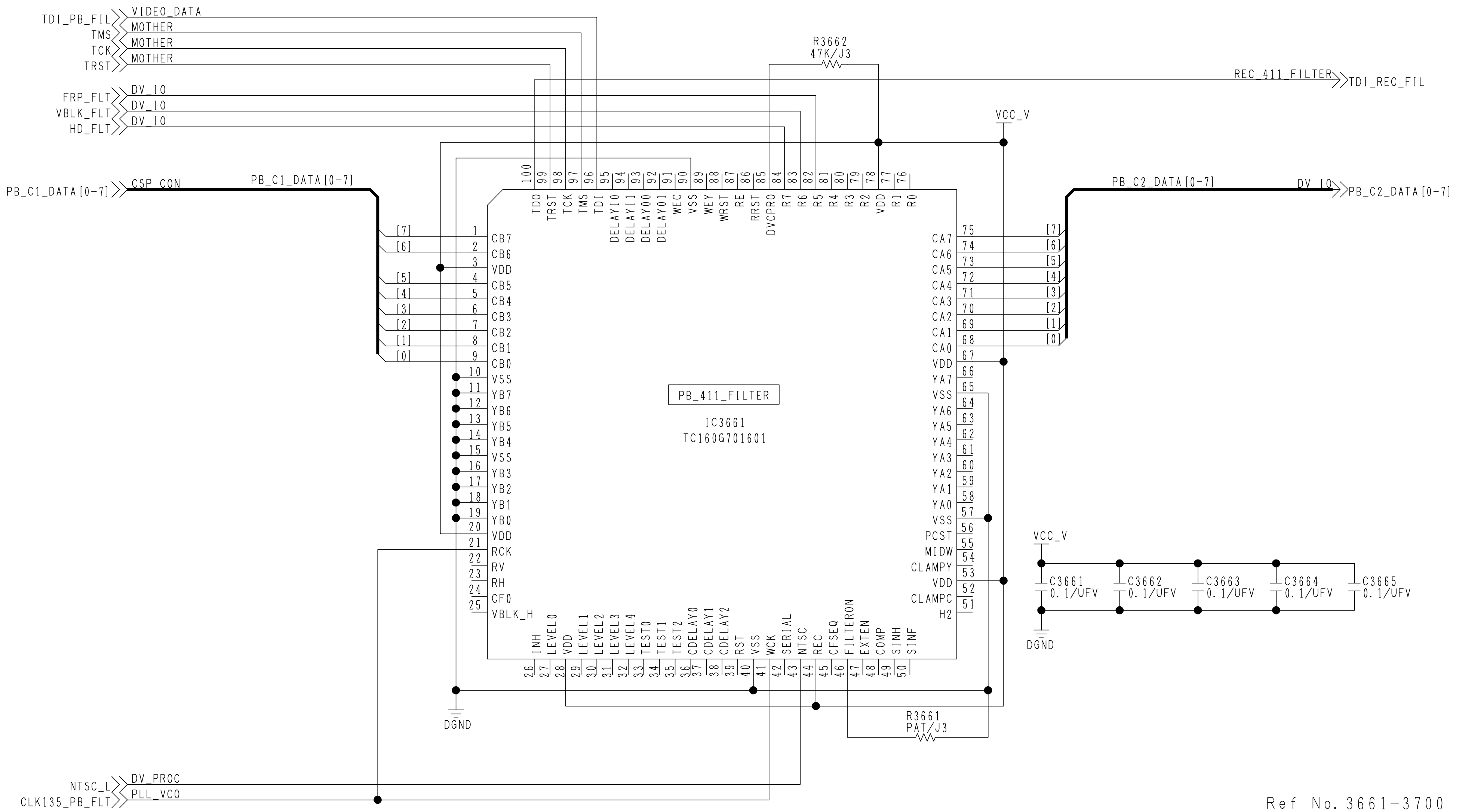
Ref No. 3601-3630

COMPONENT NAME	F4:D PROC (VBLK_CON)	17/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (17/27)	
	SCM046	


TDI_PB_FIL
PB_411_FILTER
R3635
PAT/J3
R3634
PAT/J3
MOTHER
TDO
TDI_REC_FIL
PB_411_FILTER
TMS
MOTHER
TCK
MOTHER
TRST
MOTHER
VCC_V
REC_C1_DATA[0-7]
DV_IO
DV_IO
REC_C2_DATA[0-7]
IC3632
C0JBAZ001777
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
A8 A7 A6 A5 A4 A3 A2 A1
G1 G2
(74VHC541MTCX)
R3632
PAT/J3
VCC_V
R3633
0/J3
DGND
VCC_V
IC3632
TVHC541FTEL
V
20
10
G
C3636
0.1/UFV
DGND
REC_411_FILTER
IC3631
TC160G701601
TDO TRST TCK TMS TDI DELAYI0 DELAYI1 DELAYO0 DELAYO1 WEC VSS WEY WRST RE RRST DVCPRO R7 R6 R5 R4 R3 R2 VDD R1 R0
CB7 CB6 VDD CB5 CB4 CB3 CB2 CB1 CB0 VSS YB7 YB6 YB5 YB4 VSS YB3 YB2 YB1 YB0 VDD RCK RV RH CF0 VBLK_H
CA7 CA6 CA5 CA4 CA3 CA2 CA1 CA0 VDD YA7 VSS YA6 YA5 YA4 YA3 YA2 YA1 YA0 VSS PCST MIDW CLAMPY VDD CLAMPC H2
INH LEVEL0 VDD LEVEL1 LEVEL2 LEVEL3 LEVEL4 TEST0 TEST1 TEST2 CDELAY0 CDELAY1 CDELAY2 RST VSS WCK SERIAL NTSC REC CFSEQ FILTERON EXTEN COMP SINH SINF
VCC_V
C3631 0.1/UFV
C3632 0.1/UFV
C3633 0.1/UFV
C3634 0.1/UFV
C3635 0.1/UFV
DGND
DGND
R3636
47K/J3
FIL_SINH
DV_IO
FIL_SINF
DV_IO
NTSC_L
DV_PROC
CLK135_REC_FLT
PLL_VCO
FILTERON_H
DV_PROC
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

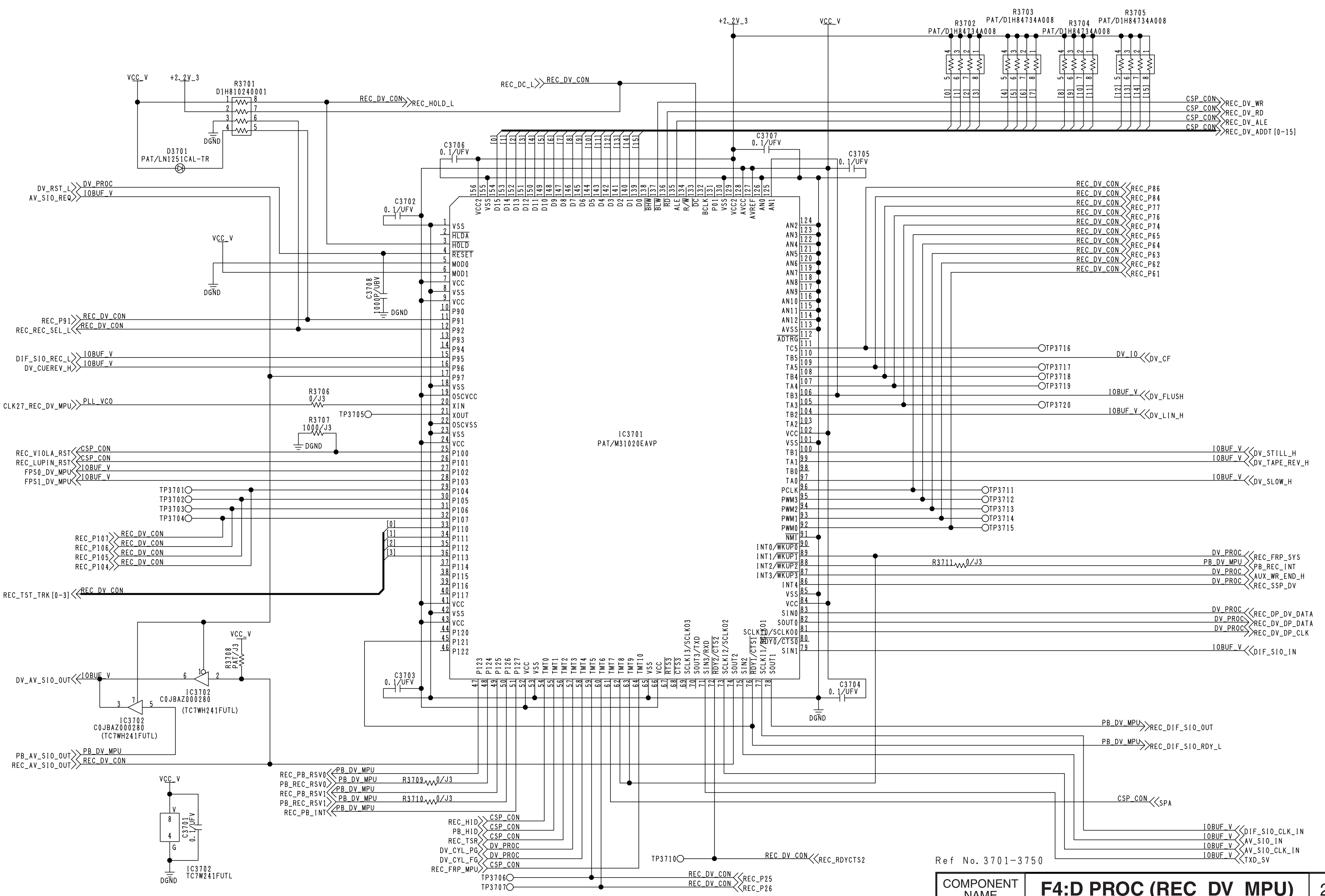
Ref No.3631-3660

COMPONENT NAME	F4:D PROC (REC_411_FLITER)	18/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088(18/27)	
	SCM047	


TDI_PB_FIL
VIDEO_DATA
TMS
MOTHER
TCK
MOTHER
TRST
MOTHER
FRP_FLT
DV_IO
VBLK_FLT
DV_IO
HD_FLT
DV_IO
R3662
47K/J3
REC_411_FILTER
TDI_REC_FIL
VCC_V
PB_C1_DATA[0-7]
CSP_CON
PB_C1_DATA[0-7]
PB_C2_DATA[0-7]
DV_IO
PB_C2_DATA[0-7]
TDO TRST TCK TMS TDI DELAYI0 DELAYI1 DELAYO0 DELAYO1 WEC VSS WEY WRST RE RRST DVCPRO R7 R6 R5 R4 R3 R2 VDD R1 R0
CB7 CB6 VDD CB5 CB4 CB3 CB2 CB1 CB0 VSS YB7 YB6 YB5 YB4 VSS YB3 YB2 YB1 YB0 VDD RCK RV RH CF0 VBLK_H
CA7 CA6 CA5 CA4 CA3 CA2 CA1 CA0 VDD YA7 VSS YA6 YA5 YA4 YA3 YA2 YA1 YA0 VSS PCST MIDW CLAMPY VDD CLAMPC H2
INH LEVEL0 VDD LEVEL1 LEVEL2 LEVEL3 LEVEL4 TEST0 TEST1 TEST2 CDELAY0 CDELAY1 CDELAY2 RST VSS WCK SERIAL NTSC REC CFSEQ FILTERON EXTEN COMP SINH SINF
PB_411_FILTER
IC3661
TC160G701601
DGND
R3661
PAT/J3
NTSC_L
DV_PROC
CLK135_PB_FLT
PLL_VCO
VCC_V
C3661 0.1/UFV
C3662 0.1/UFV
C3663 0.1/UFV
C3664 0.1/UFV
C3665 0.1/UFV
DGND

Ref No. 3661-3700

COMPONENT NAME	**F4:D PROC (PB_411_FILTER)**	19/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554A		KR30088 (19/27)
		SCM048

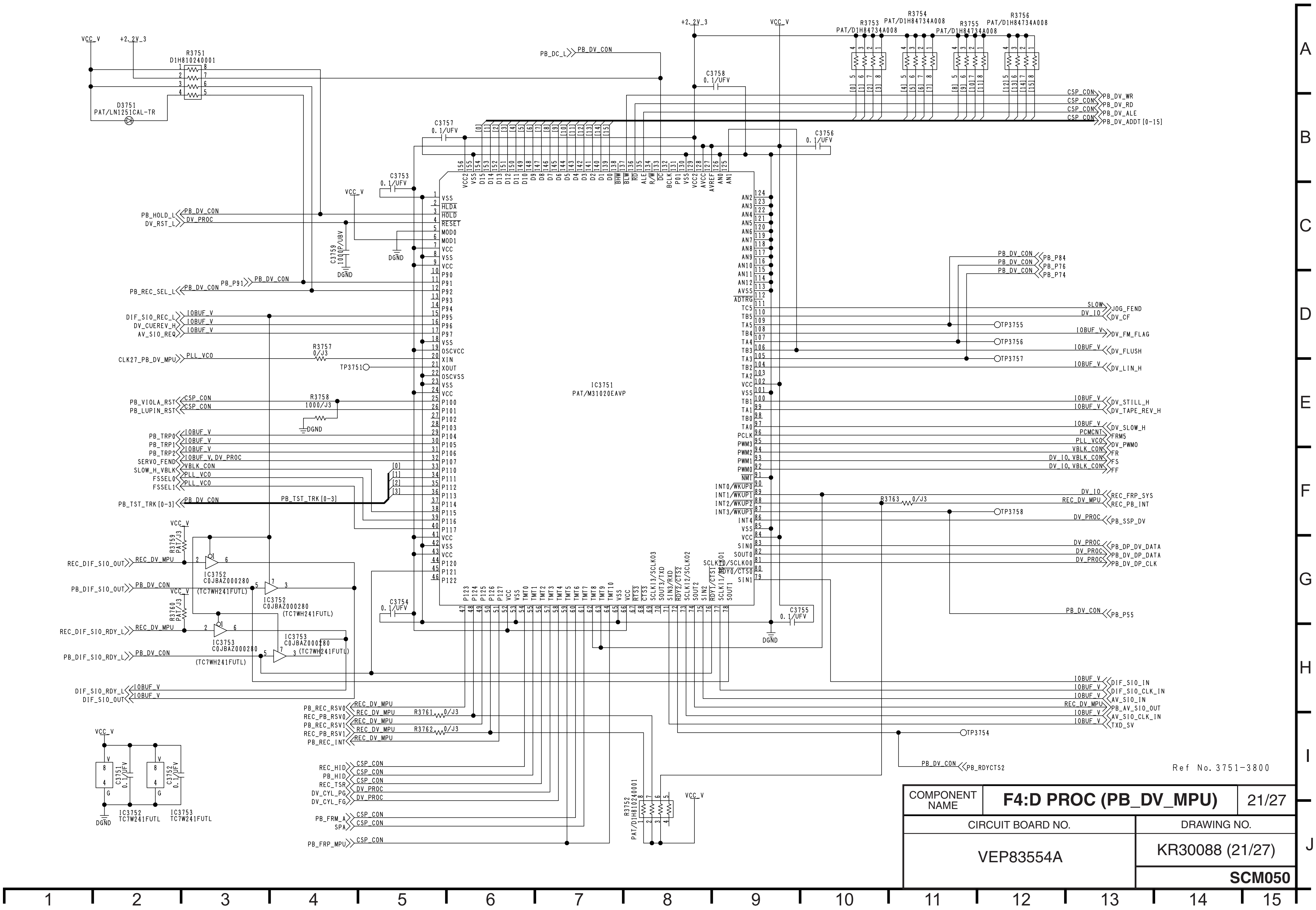


IC3701
PAT/M31020EAVP
IC3702
C0JBAZ000280
(TC7WH241FUTL)
IC3702
TC7W241FUTL
R3701
D1H810240001
R3702
PAT/D1H84734A008
R3703
PAT/D1H84734A008
R3704
PAT/D1H84734A008
R3705
PAT/D1H84734A008
R3706
0/J3
R3707
1000/J3
R3708
PAT/J3
R3709
0/J3
R3710
0/J3
R3711
0/J3
D3701
PAT/LN1251CAL-TR
C3701
0.1/UFV
C3702
0.1/UFV
C3703
0.1/UFV
C3704
0.1/UFV
C3705
0.1/UFV
C3706
0.1/UFV
C3707
0.1/UFV
C3708
1000P/UBV
VCC_V
+2.2V_3
DGND
REC_DC_L
REC_DV_CON
REC_HOLD_L
DV_RST_L
AV_SIO_REQ
DV_PROC
IOBUF_V
REC_P91
REC_REC_SEL_L
DIF_SIO_REC_L
DV_CUEREV_H
CLK27_REC_DV_MPU
PLL_VCO
TP3705
REC_VIOLA_RST
REC_LUPIN_RST
FPS0_DV_MPU
FPS1_DV_MPU
CSP_CON
TP3701
TP3702
TP3703
TP3704
REC_P107
REC_P106
REC_P105
REC_P104
REC_TST_TRK[0-3]
DV_AV_SIO_OUT
PB_AV_SIO_OUT
REC_AV_SIO_OUT
PB_DV_MPU
REC_PB_RSV0
PB_REC_RSV0
REC_PB_RSV1
PB_REC_RSV1
REC_PB_INT
REC_HID
PB_HID
REC_TSR
DV_CYL_PG
DV_CYL_FG
REC_FRP_MPU
TP3706
TP3707
REC_P25
REC_P26
TP3710
REC_RDYCTS2
REC_DV_WR
REC_DV_RD
REC_DV_ALE
REC_DV_ADDT[0-15]
REC_P86
REC_P84
REC_P77
REC_P76
REC_P74
REC_P65
REC_P64
REC_P63
REC_P62
REC_P61
TP3716
DV_IO
DV_CF
TP3717
TP3718
TP3719
DV_FLUSH
TP3720
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DV_SLOW_H
TP3711
TP3712
TP3713
TP3714
TP3715
REC_FRP_SYS
PB_REC_INT
AUX_WR_END_H
REC_SSP_DV
REC_DP_DV_DATA
REC_DV_DP_DATA
REC_DV_DP_CLK
DIF_SIO_IN
REC_DIF_SIO_OUT
REC_DIF_SIO_RDY_L
SPA
DIF_SIO_CLK_IN
AV_SIO_IN
AV_SIO_CLK_IN
TXD_SV

Ref No. 3701-3750

COMPONENT NAME	F4:D PROC (REC_DV_MPU)	20/27

CIRCUIT BOARD NO.	DRAWING NO.
VEP83554A	KR30088 (20/27)
	SCM049


IC3751
PAT/M31020EAVP
IC3752
C0JBAZ000280
(TC7WH241FUTL)
IC3753
C0JBAZ000280
(TC7WH241FUTL)
IC3752 TC7W241FUTL
IC3753 TC7W241FUTL
R3751
D1H810240001
D3751
PAT/LN1251CAL-TR
R3752
PAT/D1H810240001
R3753
PAT/D1H84734A008
R3754
PAT/D1H84734A008
R3755
PAT/D1H84734A008
R3756
PAT/D1H84734A008
R3757 0/J3
R3758 1000/J3
R3759 PAT/J3
R3760 PAT/J3
R3761 0/J3
R3762 0/J3
R3763 0/J3
C3751 0.1/UFV
C3752 0.1/UFV
C3753 0.1/UFV
C3754 0.1/UFV
C3755 0.1/UFV
C3756 0.1/UFV
C3757 0.1/UFV
C3758 0.1/UFV
C3759 1000P/UBV
VCC_V
+2.2V_3
DGND
PB_DC_L
PB_HOLD_L
DV_RST_L
PB_REC_SEL_L
DIF_SIO_REC_L
DV_CUEREV_H
AV_SIO_REQ
CLK27_PB_DV_MPU
PB_VIOLA_RST
PB_LUPIN_RST
PB_TRP0
PB_TRP1
PB_TRP2
SERVO_FEND
SLOW_H_VBLK
FSSEL0
FSSEL1
PB_TST_TRK[0-3]
REC_DIF_SIO_OUT
PB_DIF_SIO_OUT
REC_DIF_SIO_RDY_L
PB_DIF_SIO_RDY_L
DIF_SIO_RDY_L
DIF_SIO_OUT
PB_REC_RSV0
REC_PB_RSV0
PB_REC_RSV1
REC_PB_RSV1
PB_REC_INT
REC_HID
PB_HID
REC_TSR
DV_CYL_PG
DV_CYL_FG
PB_FRM_A
SPA
PB_FRP_MPU
PB_DV_WR
PB_DV_RD
PB_DV_ALE
PB_DV_ADDT[0-15]
PB_P84
PB_P76
PB_P74
JOG_FEND
DV_CF
DV_FM_FLAG
DV_FLUSH
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DV_SLOW_H
FRM5
DV_PWM0
FR
FS
FF
REC_FRP_SYS
REC_PB_INT
PB_SSP_DV
PB_DP_DV_DATA
PB_DV_DP_DATA
PB_DV_DP_CLK
PB_P55
DIF_SIO_IN
DIF_SIO_CLK_IN
AV_SIO_IN
PB_AV_SIO_OUT
AV_SIO_CLK_IN
TXD_SV
PB_RDYCTS2
TP3751
TP3754
TP3755
TP3756
TP3757
TP3758
A
B
C
D
E
F
G
H
I
J
1
2
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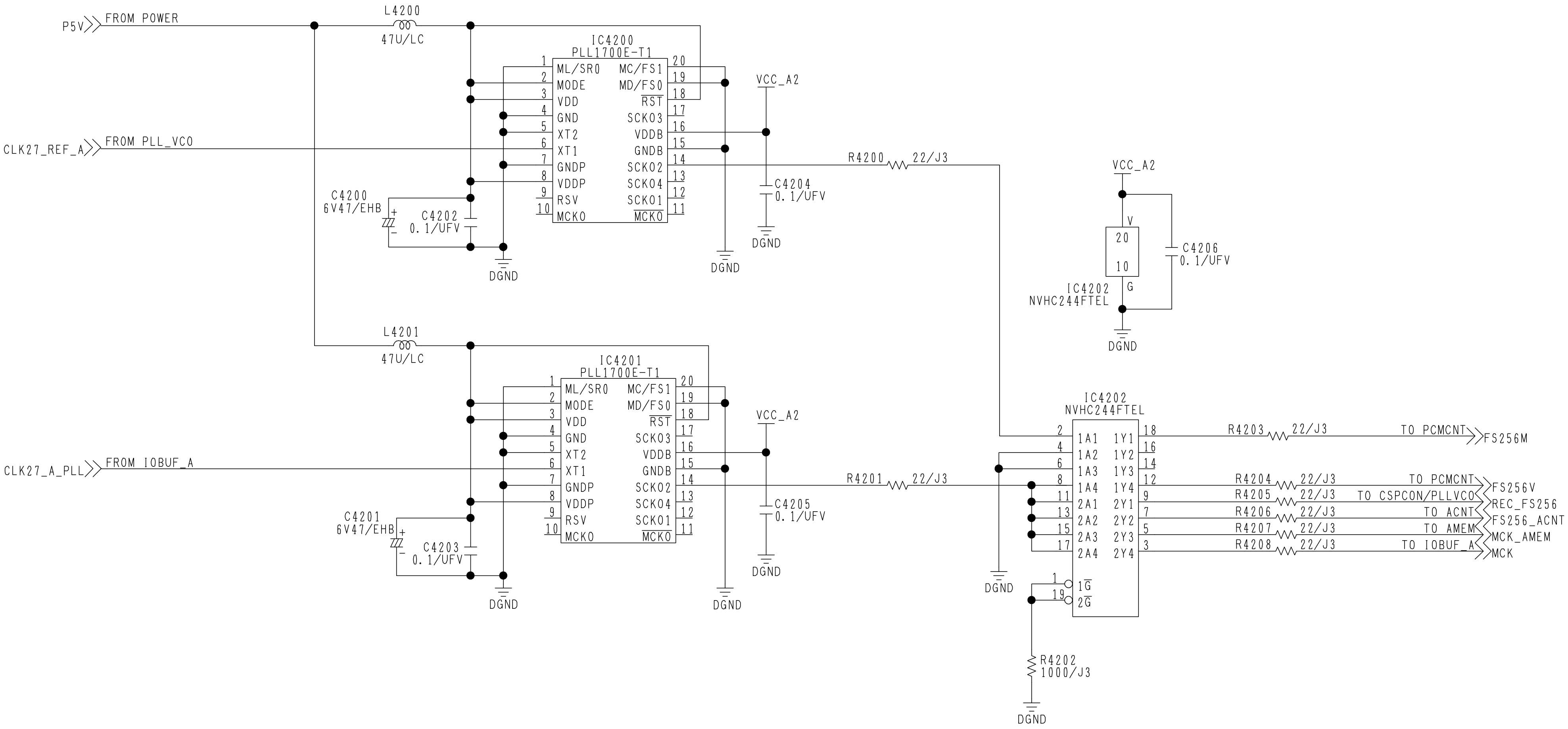
Ref No. 3751-3800

COMPONENT NAME	F4:D PROC (PB_DV_MPU)	21/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (21/27)	
	SCM050	


P5V
FROM POWER
L4200
47U/LC
IC4200
PLL1700E-T1
1 ML/SR0
2 MODE
3 VDD
4 GND
5 XT2
6 XT1
7 GNDP
8 VDDP
9 RSV
10 MCKO
20 MC/FS1
19 MD/FS0
18 RST
17 SCKO3
16 VDDB
15 GNDB
14 SCKO2
13 SCKO4
12 SCKO1
11 MCKO
CLK27_REF_A
FROM PLL_VCO
C4200
6V47/EHB
C4202
0.1/UFV
DGND
VCC_A2
C4204
0.1/UFV
DGND
DGND
R4200
22/J3
VCC_A2
V
20
10
G
IC4202
NVHC244FTEL
C4206
0.1/UFV
DGND
L4201
47U/LC
IC4201
PLL1700E-T1
1 ML/SR0
2 MODE
3 VDD
4 GND
5 XT2
6 XT1
7 GNDP
8 VDDP
9 RSV
10 MCKO
20 MC/FS1
19 MD/FS0
18 RST
17 SCKO3
16 VDDB
15 GNDB
14 SCKO2
13 SCKO4
12 SCKO1
11 MCKO
CLK27_A_PLL
FROM IOBUF_A
C4201
6V47/EHB
C4203
0.1/UFV
DGND
VCC_A2
C4205
0.1/UFV
DGND
DGND
R4201
22/J3
IC4202
NVHC244FTEL
2 1A1
4 1A2
6 1A3
8 1A4
11 2A1
13 2A2
15 2A3
17 2A4
1 1G
19 2G
18 1Y1
16 1Y2
14 1Y3
12 1Y4
9 2Y1
7 2Y2
5 2Y3
3 2Y4
DGND
R4202
1000/J3
DGND
R4203 22/J3 TO PCMCNT FS256M
R4204 22/J3 TO PCMCNT FS256V
R4205 22/J3 TO CSPCON/PLLVCO REC_FS256
R4206 22/J3 TO ACNT FS256_ACNT
R4207 22/J3 TO AMEM MCK_AMEM
R4208 22/J3 TO IOBUF_A MCK
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
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11
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14
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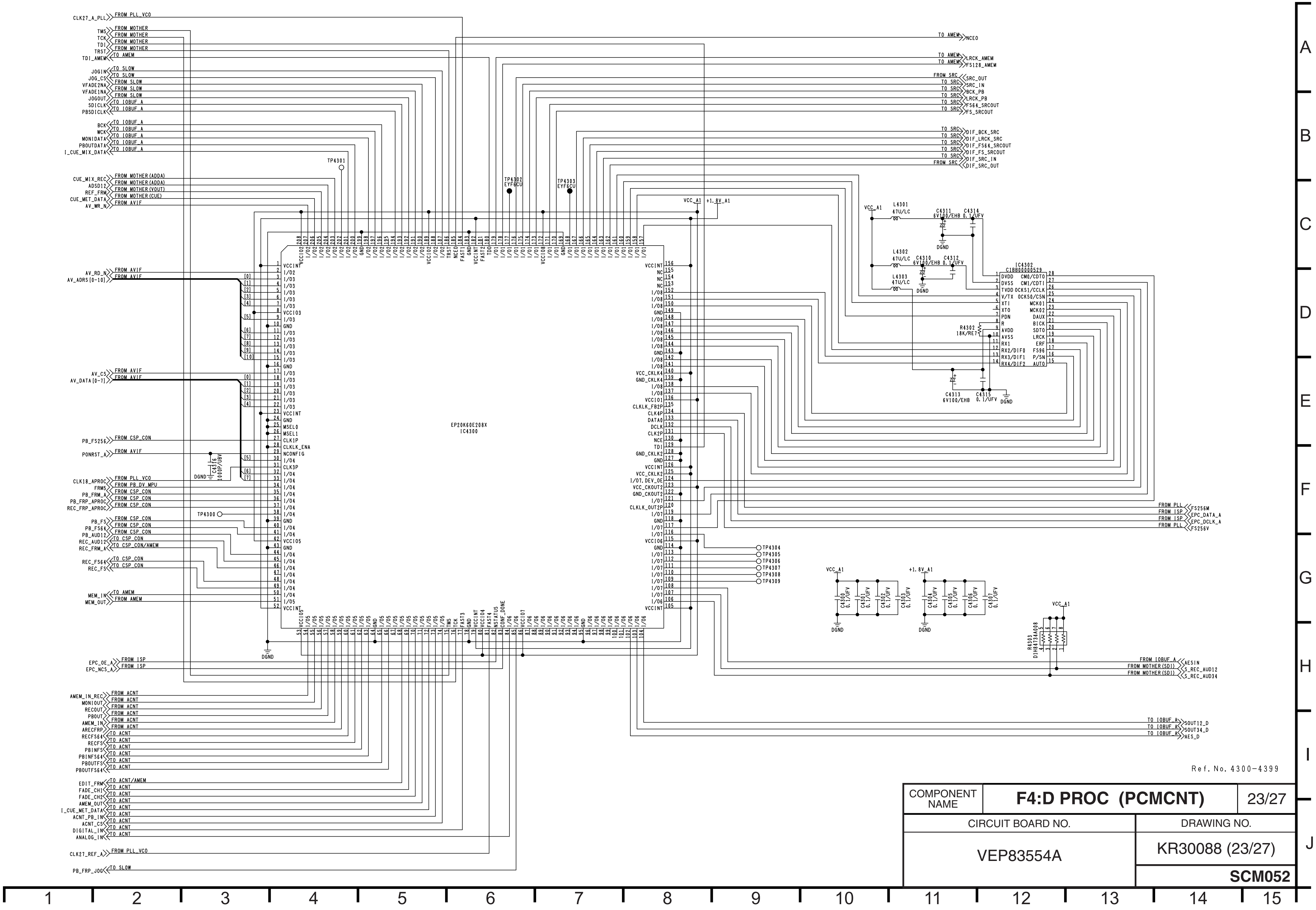
Ref. No. 4200-4299

COMPONENT NAME	F4:D PROC (PLL)	22/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (22/27)	
	SCM051	


CLK27_A_PLL FROM PLL_VCO
TMS FROM MOTHER
TCK FROM MOTHER
TDI FROM MOTHER
TRST FROM MOTHER
TDI_AMEM TO AMEM
JOGIN TO SLOW
JOG_CS TO SLOW
VFADE2NA FROM SLOW
VFADE1NA FROM SLOW
JOGOUT FROM SLOW
SDICLK TO IOBUF_A
PBSDICLK TO IOBUF_A
BCK TO IOBUF_A
WCK TO IOBUF_A
MONIDATA TO IOBUF_A
PBOUTDATA TO IOBUF_A
I_CUE_MIX_DATA TO IOBUF_A
TP4301
CUE_MIX_REC FROM MOTHER(ADDA)
ADSD12 FROM MOTHER(ADDA)
REF_FRM FROM MOTHER(VOUT)
CUE_MET_DATA FROM MOTHER(CUE)
AV_WR_N FROM AVIF
TP4302 EYF8CU
TP4303 EYF8CU
AV_RD_N FROM AVIF
AV_ADRS[0-10] FROM AVIF
AV_CS FROM AVIF
AV_DATA[0-7] FROM AVIF
PB_FS256 FROM CSP_CON
PONRST_A FROM AVIF
C4316 1000P/UBV
DGND
CLK18_APROC FROM PLL_VCO
FRM5 FROM PB_DV_MPU
PB_FRM_A FROM CSP_CON
PB_FRP_APROC FROM CSP_CON
REC_FRP_APROC FROM CSP_CON
TP4300
PB_FS FROM CSP_CON
PB_FS64 FROM CSP_CON
PB_AUD12 FROM CSP_CON
REC_AUD12 TO CSP_CON
REC_FRM_A TO CSP_CON/AMEM
REC_FS64 TO CSP_CON
REC_FS TO CSP_CON
MEM_IN TO AMEM
MEM_OUT FROM AMEM
EP20K60E208X
IC4300
EPC_OE_A FROM ISP
EPC_NCS_A FROM ISP
AMEM_IN_REC FROM ACNT
MONIOUT FROM ACNT
RECOUT FROM ACNT
PBOUT FROM ACNT
AMEM_IN FROM ACNT
ARECFRP FROM ACNT
RECFS64 TO ACNT
RECFS TO ACNT
PBINFS TO ACNT
PBINFS64 TO ACNT
PBOUTFS TO ACNT
PBOUTFS64 TO ACNT
EDIT_FRM TO ACNT/AMEM
FADE_CH1 TO ACNT
FADE_CH2 TO ACNT
AMEM_OUT TO ACNT
I_CUE_MET_DATA TO ACNT
ACNT_PB_IN TO ACNT
ACNT_CS TO ACNT
DIGITAL_IN TO ACNT
ANALOG_IN TO ACNT
CLK27_REF_A FROM PLL_VCO
PB_FRP_JOG TO SLOW
TO AMEM NCEO
TO AMEM LRCK_AMEM
TO AMEM FS128_AMEM
FROM SRC SRC_OUT
TO SRC SRC_IN
TO SRC BCK_PB
TO SRC LRCK_PB
TO SRC FS64_SRCOUT
TO SRC FS_SRCOUT
TO SRC DIF_BCK_SRC
TO SRC DIF_LRCK_SRC
TO SRC DIF_FS64_SRCOUT
TO SRC DIF_FS_SRCOUT
TO SRC DIF_SRC_IN
FROM SRC DIF_SRC_OUT
VCC_A1
+1.8V_A1
L4301 47U/LC
C4311 6V100/EHB
C4314 0.1/UFV
L4302 47U/LC
C4310 6V100/EHB
C4312 0.1/UFV
L4303 47U/LC
IC4302 C1BB00000529
DVDD CM0/CDTO
DVSS CM1/CDTI
TVDD OCKS1/CCLK
V/TX OCKS0/CSN
XTI MCKO1
XTO MCKO2
PDN DAUX
R BICK
AVDD SDTO
AVSS LRCK
RX1 ERF
RX2/DIF0 FS96
RX3/DIF1 P/SN
RX4/DIF2 AUTO
R4302 18K/RE7
C4313 6V100/EHB
C4315 0.1/UFV
FROM PLL FS256M
FROM ISP EPC_DATA_A
FROM ISP EPC_DCLK_A
FROM PLL FS256V
TP4304
TP4305
TP4306
TP4307
TP4308
TP4309
C4300 0.1/UFV
C4301 0.1/UFV
C4302 0.1/UFV
C4303 0.1/UFV
C4304 0.1/UFV
C4305 0.1/UFV
C4306 0.1/UFV
C4307 0.1/UFV
R4303 D1H8473AA008
FROM IOBUF_A AESIN
FROM MOTHER(SDI) S_REC_AUD12
FROM MOTHER(SDI) S_REC_AUD34
TO IOBUF_A SOUT12_D
TO IOBUF_A SOUT34_D
TO IOBUF_A AES_D
A
B
C
D
E
F
G
H
I
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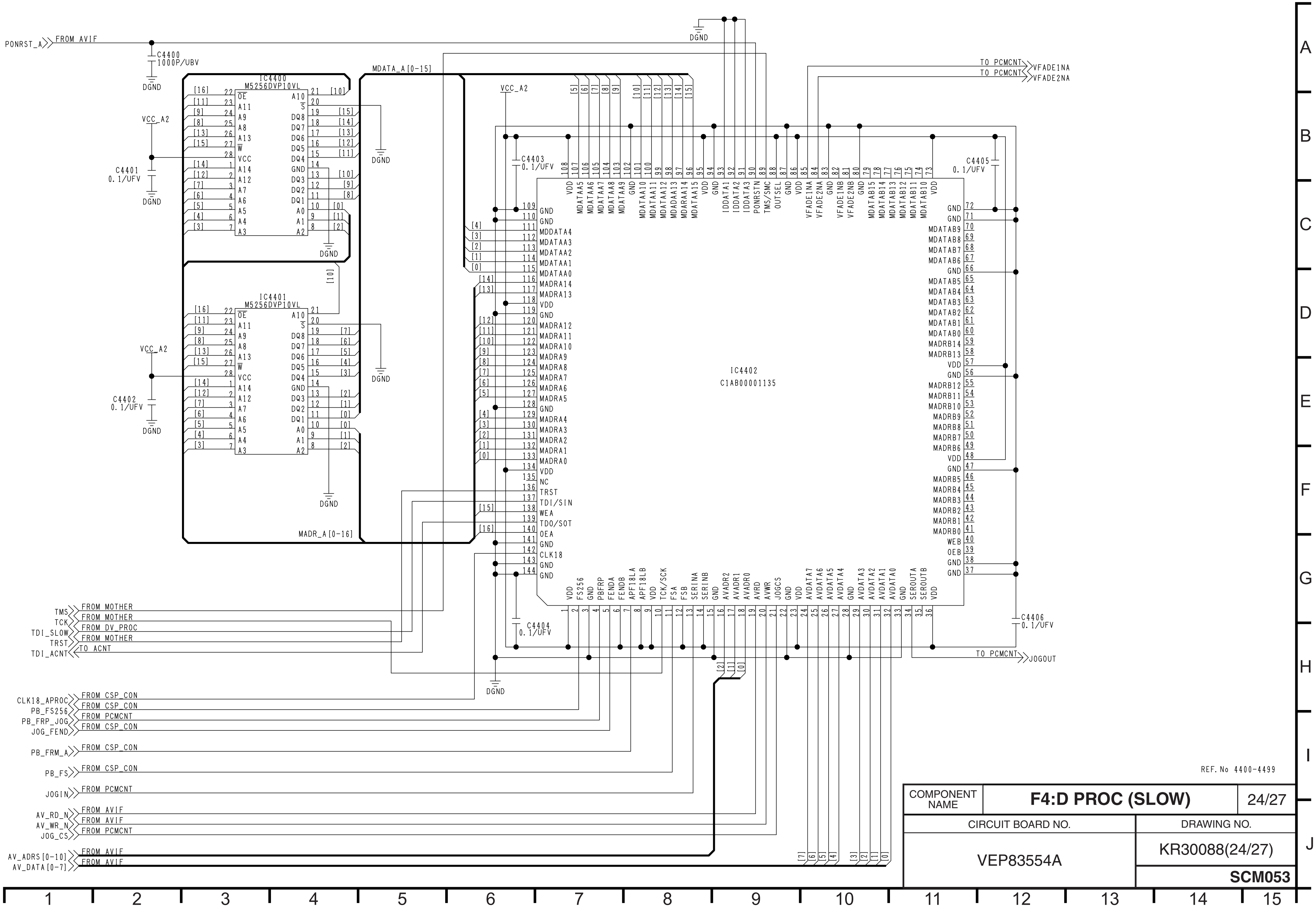
Ref. No. 4300−4399

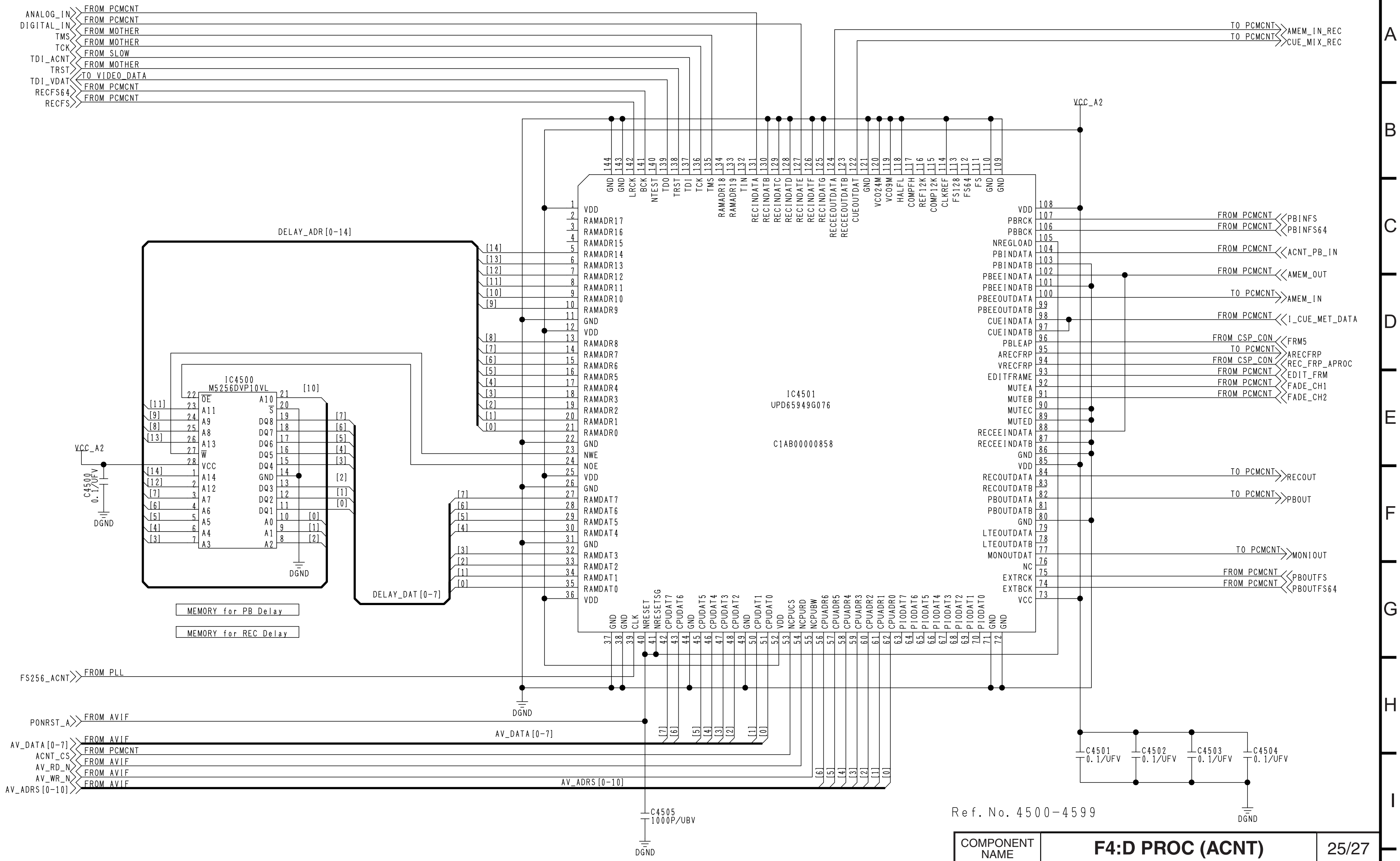
COMPONENT NAME	F4:D PROC (PCMCNT)	23/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (23/27)	
	SCM052	


PONRST_A FROM AVIF
C4400 1000P/UBV
DGND
IC4400 M5256DVP10VL
IC4401 M5256DVP10VL
OE A11 A9 A8 A13 W VCC A14 A12 A7 A6 A5 A4 A3
A10 S DQ8 DQ7 DQ6 DQ5 DQ4 GND DQ3 DQ2 DQ1 A0 A1 A2
VCC_A2
C4401 0.1/UFV
C4402 0.1/UFV
MDATA_A[0-15]
MADR_A[0-16]
IC4402 C1AB00001135
C4403 0.1/UFV
C4404 0.1/UFV
C4405 0.1/UFV
C4406 0.1/UFV
TO PCMCNT VFADE1NA
TO PCMCNT VFADE2NA
TO PCMCNT JOGOUT
VDD GND MDDATA4 MDATAA3 MDATAA2 MDATAA1 MDATAA0 MADRA14 MADRA13 MADRA12 MADRA11 MADRA10 MADRA9 MADRA8 MADRA7 MADRA6 MADRA5 MADRA4 MADRA3 MADRA2 MADRA1 MADRA0 NC TRST TDI/SIN WEA TDO/SOT OEA CLK18
MDATAA5 MDATAA6 MDATAA7 MDATAA8 MDATAA9 MDATAA10 MDATAA11 MDATAA12 MDADAA13 MDARAA14 MDATAA15 IDDATA1 IDDATA2 IDDATA3 PONRSTN TMS/SMC OUTSEL VFADE1NA VFADE2NA VFADE1NB VFADE2NB MDATAB15 MDATAB14 MDATAB13 MDATAB12 MDATAB11 MDATAB10
MDATAB9 MDATAB8 MDATAB7 MDATAB6 MDATAB5 MDATAB4 MDATAB3 MDATAB2 MDATAB1 MDATAB0 MADRB14 MADRB13 MADRB12 MADRB11 MADRB10 MADRB9 MADRB8 MADRB7 MADRB6 MADRB5 MADRB4 MADRB3 MADRB2 MADRB1 MADRB0 WEB OEB
FS256 PBFRP FENDA FENDB APF18LA APF18LB TCK/SCK FSA FSB SERINA SERINB AVADR2 AVADR1 AVADR0 AVRD AVWR JOGCS AVDATA7 AVDATA6 AVDATA5 AVDATA4 AVDATA3 AVDATA2 AVDATA1 AVDATA0 SEROUTA SEROUTB
TMS FROM MOTHER
TCK FROM MOTHER
TDI_SLOW FROM DV_PROC
TRST FROM MOTHER
TDI_ACNT TO ACNT
CLK18_APROC FROM CSP_CON
PB_FS256 FROM CSP_CON
PB_FRP_JOG FROM PCMCNT
JOG_FEND FROM CSP_CON
PB_FRM_A FROM CSP_CON
PB_FS FROM CSP_CON
JOGIN FROM PCMCNT
AV_RD_N FROM AVIF
AV_WR_N FROM AVIF
JOG_CS FROM PCMCNT
AV_ADRS[0-10] FROM AVIF
AV_DATA[0-7] FROM AVIF
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

REF. No 4400-4499

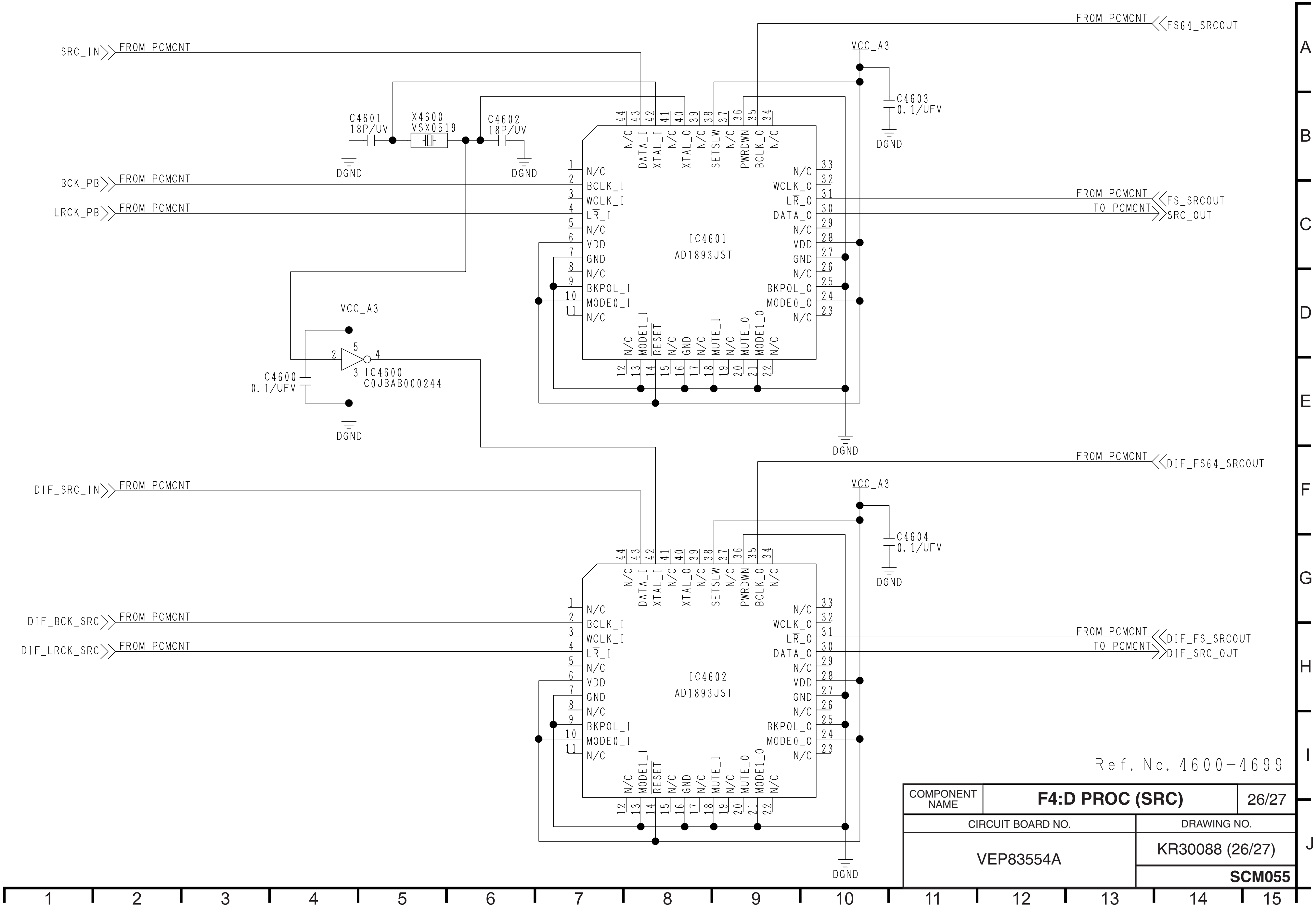
COMPONENT NAME	**F4:D PROC (SLOW)**	24/27

CIRCUIT BOARD NO.	DRAWING NO.
VEP83554A	KR30088(24/27)
	SCM053


ANALOG_IN FROM PCMCNT
DIGITAL_IN FROM PCMCNT
TMS FROM MOTHER
TCK FROM MOTHER
TDI_ACNT FROM SLOW
TRST FROM MOTHER
TDI_VDAT TO VIDEO DATA
RECFS64 FROM PCMCNT
RECFS FROM PCMCNT
TO PCMCNT AMEM_IN_REC
TO PCMCNT CUE_MIX_REC
VCC_A2
DELAY_ADR[0-14]
IC4500
M5256DVP10VL
MEMORY for PB Delay
MEMORY for REC Delay
DELAY_DAT[0-7]
C4500 0.1/UFV
DGND
IC4501
UPD65949G076
C1AB00000858
FROM PCMCNT PBINFS
FROM PCMCNT PBINFS64
FROM PCMCNT ACNT_PB_IN
FROM PCMCNT AMEM_OUT
TO PCMCNT AMEM_IN
FROM PCMCNT I_CUE_MET_DATA
FROM CSP_CON FRM5
TO PCMCNT ARECFRP
FROM CSP_CON REC_FRP_APROC
FROM PCMCNT EDIT_FRM
FROM PCMCNT FADE_CH1
FROM PCMCNT FADE_CH2
TO PCMCNT RECOUT
TO PCMCNT PBOUT
TO PCMCNT MONIOUT
FROM PCMCNT PBOUTFS
FROM PCMCNT PBOUTFS64
FS256_ACNT FROM PLL
PONRST_A FROM AVIF
AV_DATA[0-7] FROM AVIF
ACNT_CS FROM PCMCNT
AV_RD_N FROM AVIF
AV_WR_N FROM AVIF
AV_ADRS[0-10] FROM AVIF
AV_DATA[0-7]
AV_ADRS[0-10]
C4501 0.1/UFV
C4502 0.1/UFV
C4503 0.1/UFV
C4504 0.1/UFV
C4505 1000P/UBV

Ref. No. 4500-4599

COMPONENT NAME	F4:D PROC (ACNT)	25/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (25/27)	
	SCM054	


SRC_IN
FROM PCMCNT
BCK_PB
FROM PCMCNT
LRCK_PB
FROM PCMCNT
C4601
18P/UV
X4600
VSX0519
C4602
18P/UV
DGND
DGND
VCC_A3
C4603
0.1/UFV
DGND
FROM PCMCNT
FS64_SRCOUT
FROM PCMCNT
FS_SRCOUT
TO PCMCNT
SRC_OUT
IC4601
AD1893JST
N/C
BCLK_I
WCLK_I
LR_I
VDD
GND
BKPOL_I
MODE0_I
DATA_I
XTAL_I
XTAL_O
SETSLW
PWRDWN
BCLK_O
WCLK_O
LR_O
DATA_O
BKPOL_O
MODE0_O
MODE1_I
RESET
MUTE_I
MUTE_O
MODE1_O
VCC_A3
C4600
0.1/UFV
IC4600
C0JBAB000244
DGND
DGND
DIF_SRC_IN
FROM PCMCNT
DIF_BCK_SRC
FROM PCMCNT
DIF_LRCK_SRC
FROM PCMCNT
FROM PCMCNT
DIF_FS64_SRCOUT
VCC_A3
C4604
0.1/UFV
DGND
FROM PCMCNT
DIF_FS_SRCOUT
TO PCMCNT
DIF_SRC_OUT
IC4602
AD1893JST
DGND
A
B
C
D
E
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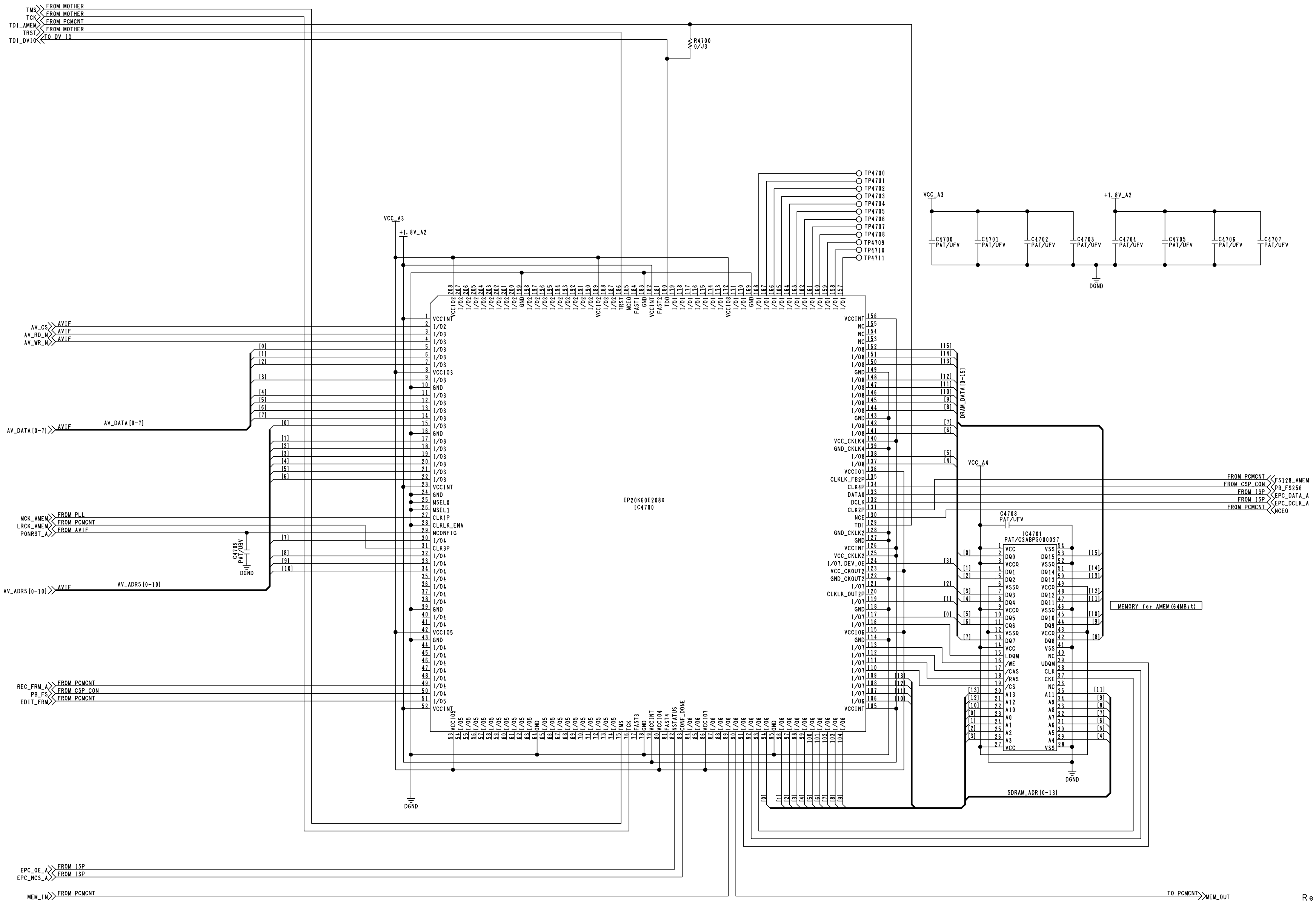
Ref. No. 4600-4699

COMPONENT NAME	F4:D PROC (SRC)	26/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (26/27)	
	SCM055	


TMS FROM MOTHER
TCK FROM MOTHER
TDI_AMEM FROM PCMCNT
TRST FROM MOTHER
TDI_DVIO TO DV IO
R4700 0/J3
TP4700
TP4701
TP4702
TP4703
TP4704
TP4705
TP4706
TP4707
TP4708
TP4709
TP4710
TP4711
VCC_A3
+1.8V_A2
C4700 PAT/UFV
C4701 PAT/UFV
C4702 PAT/UFV
C4703 PAT/UFV
C4704 PAT/UFV
C4705 PAT/UFV
C4706 PAT/UFV
C4707 PAT/UFV
DGND
AV_CS AVIF
AV_RD_N AVIF
AV_WR_N AVIF
AV_DATA[0-7] AVIF
AV_DATA[0-7]
MCK_AMEM FROM PLL
LRCK_AMEM FROM PCMCNT
PONRST_A FROM AVIF
C4709 PAT/UBV
AV_ADRS[0-10] AVIF
AV_ADRS[0-10]
REC_FRM_A FROM PCMCNT
PB_FS FROM CSP_CON
EDIT_FRM FROM PCMCNT
EP20K60E208X
IC4700
DRAM_DATA[0-15]
VCC_A4
C4708 PAT/UFV
IC4701 PAT/C3ABPG000027
MEMORY for AMEM(64MBit)
FROM PCMCNT FS128_AMEM
FROM CSP_CON PB_FS256
FROM ISP EPC_DATA_A
FROM ISP EPC_DCLK_A
FROM PCMCNT NCEO
SDRAM_ADR[0-13]
EPC_OE_A FROM ISP
EPC_NCS_A FROM ISP
MEM_IN FROM PCMCNT
TO PCMCNT MEM_OUT
A
B
C
D
E
F
G
H
I
J
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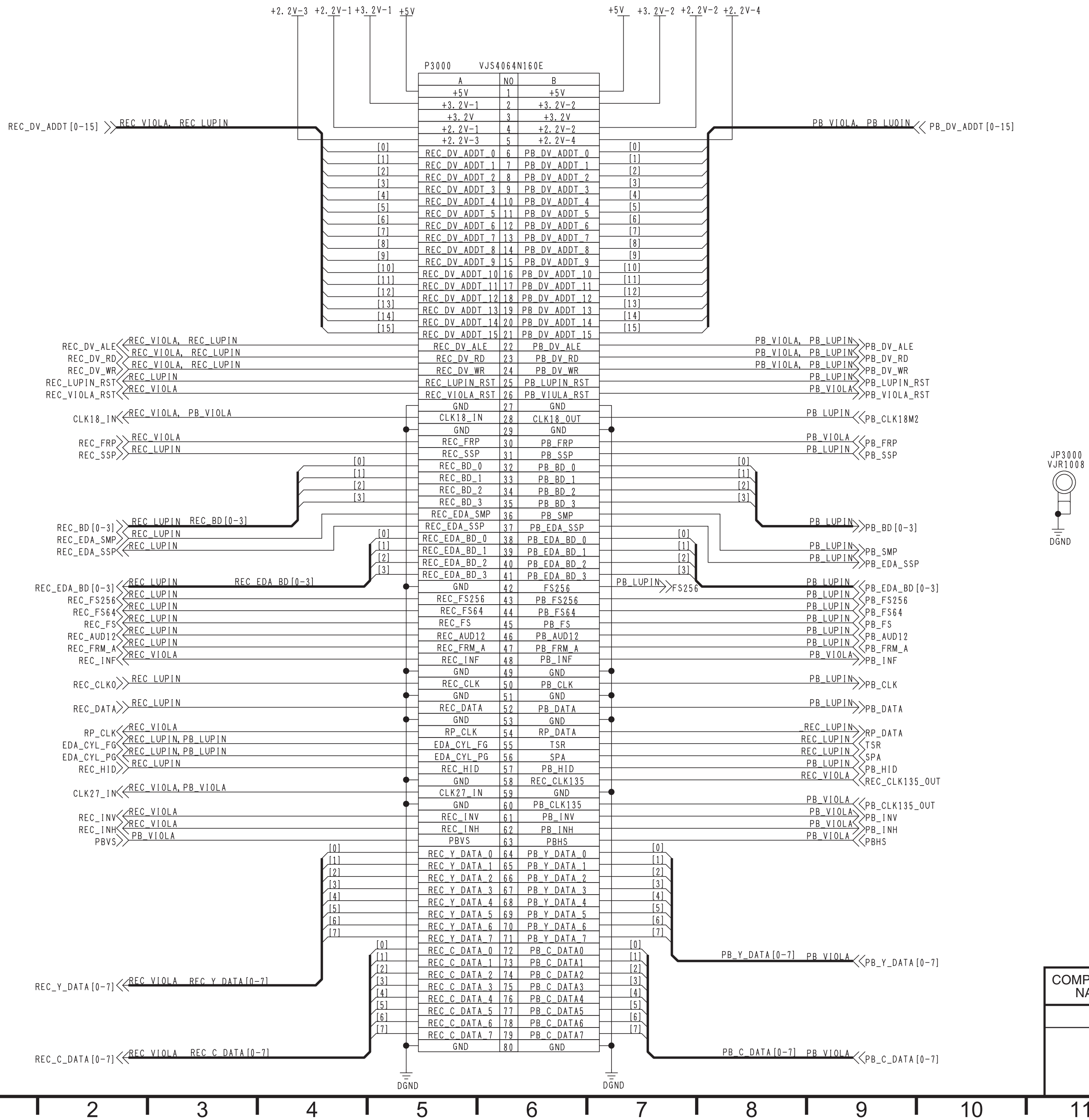
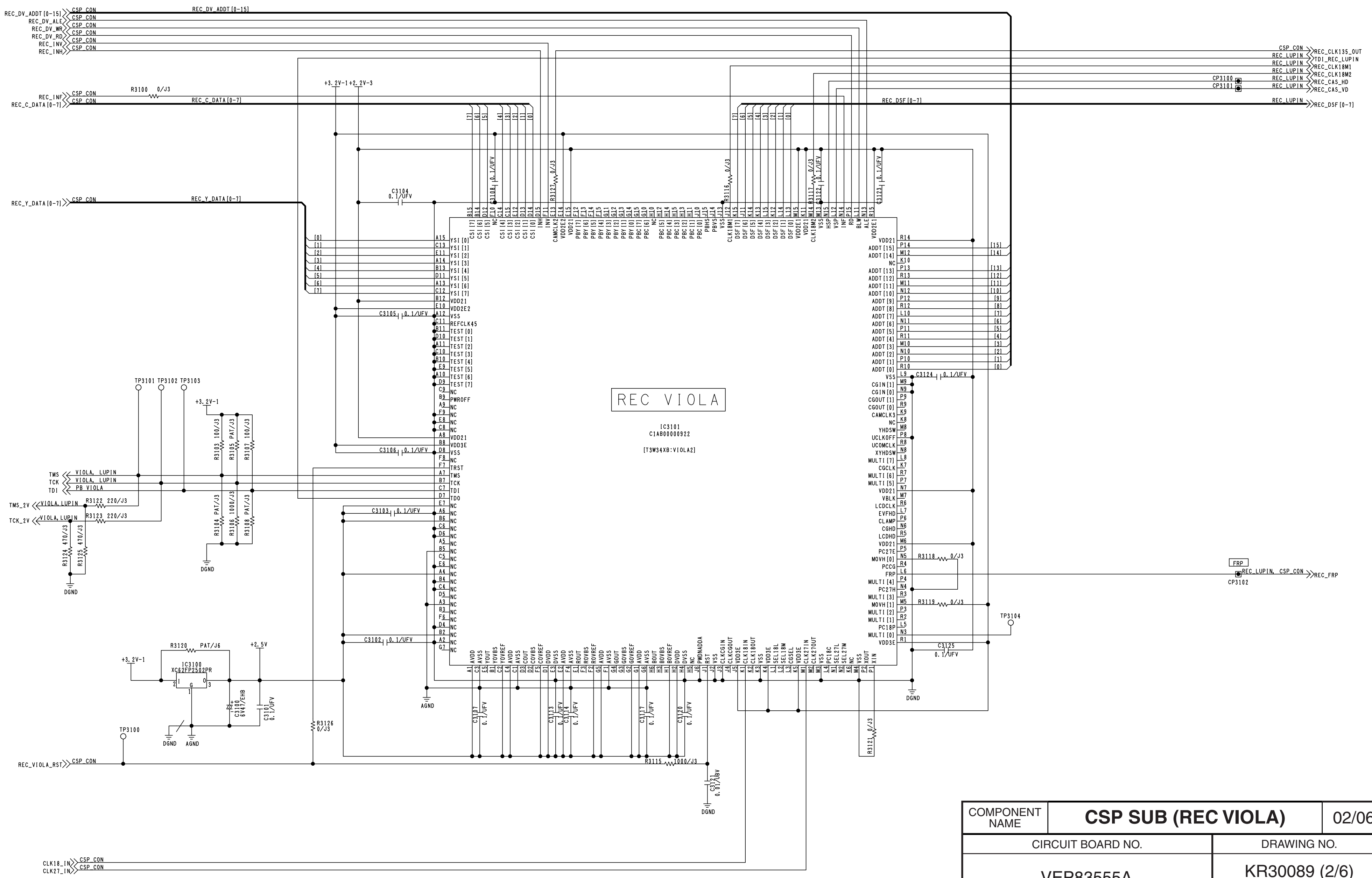
Ref. No. 4700−4799

COMPONENT NAME	F4:D PROC (AMEM)	27/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (27/27)	
	SCM056	


P3000 VJS4064N160E
+2.2V-3
+2.2V-1
+3.2V-1
+5V
+5V
+3.2V-2
+2.2V-2
+2.2V-4
A NO B
+5V 1 +5V
+3.2V-1 2 +3.2V-2
+3.2V 3 +3.2V
+2.2V-1 4 +2.2V-2
+2.2V-3 5 +2.2V-4
REC_DV_ADDT_0 6 PB_DV_ADDT_0
REC_DV_ADDT_1 7 PB_DV_ADDT_1
REC_DV_ADDT_2 8 PB_DV_ADDT_2
REC_DV_ADDT_3 9 PB_DV_ADDT_3
REC_DV_ADDT_4 10 PB_DV_ADDT_4
REC_DV_ADDT_5 11 PB_DV_ADDT_5
REC_DV_ADDT_6 12 PB_DV_ADDT_6
REC_DV_ADDT_7 13 PB_DV_ADDT_7
REC_DV_ADDT_8 14 PB_DV_ADDT_8
REC_DV_ADDT_9 15 PB_DV_ADDT_9
REC_DV_ADDT_10 16 PB_DV_ADDT_10
REC_DV_ADDT_11 17 PB_DV_ADDT_11
REC_DV_ADDT_12 18 PB_DV_ADDT_12
REC_DV_ADDT_13 19 PB_DV_ADDT_13
REC_DV_ADDT_14 20 PB_DV_ADDT_14
REC_DV_ADDT_15 21 PB_DV_ADDT_15
REC_DV_ALE 22 PB_DV_ALE
REC_DV_RD 23 PB_DV_RD
REC_DV_WR 24 PB_DV_WR
REC_LUPIN_RST 25 PB_LUPIN_RST
REC_VIOLA_RST 26 PB_VIULA_RST
GND 27 GND
CLK18_IN 28 CLK18_OUT
GND 29 GND
REC_FRP 30 PB_FRP
REC_SSP 31 PB_SSP
REC_BD_0 32 PB_BD_0
REC_BD_1 33 PB_BD_1
REC_BD_2 34 PB_BD_2
REC_BD_3 35 PB_BD_3
REC_EDA_SMP 36 PB_SMP
REC_EDA_SSP 37 PB_EDA_SSP
REC_EDA_BD_0 38 PB_EDA_BD_0
REC_EDA_BD_1 39 PB_EDA_BD_1
REC_EDA_BD_2 40 PB_EDA_BD_2
REC_EDA_BD_3 41 PB_EDA_BD_3
GND 42 FS256
REC_FS256 43 PB_FS256
REC_FS64 44 PB_FS64
REC_FS 45 PB_FS
REC_AUD12 46 PB_AUD12
REC_FRM_A 47 PB_FRM_A
REC_INF 48 PB_INF
GND 49 GND
REC_CLK 50 PB_CLK
GND 51 GND
REC_DATA 52 PB_DATA
GND 53 GND
RP_CLK 54 RP_DATA
EDA_CYL_FG 55 TSR
EDA_CYL_PG 56 SPA
REC_HID 57 PB_HID
GND 58 REC_CLK135
CLK27_IN 59 GND
GND 60 PB_CLK135
REC_INV 61 PB_INV
REC_INH 62 PB_INH
PBVS 63 PBHS
REC_Y_DATA_0 64 PB_Y_DATA_0
REC_Y_DATA_1 65 PB_Y_DATA_1
REC_Y_DATA_2 66 PB_Y_DATA_2
REC_Y_DATA_3 67 PB_Y_DATA_3
REC_Y_DATA_4 68 PB_Y_DATA_4
REC_Y_DATA_5 69 PB_Y_DATA_5
REC_Y_DATA_6 70 PB_Y_DATA_6
REC_Y_DATA_7 71 PB_Y_DATA_7
REC_C_DATA_0 72 PB_C_DATA0
REC_C_DATA_1 73 PB_C_DATA1
REC_C_DATA_2 74 PB_C_DATA2
REC_C_DATA_3 75 PB_C_DATA3
REC_C_DATA_4 76 PB_C_DATA4
REC_C_DATA_5 77 PB_C_DATA5
REC_C_DATA_6 78 PB_C_DATA6
REC_C_DATA_7 79 PB_C_DATA7
GND 80 GND
REC_DV_ADDT[0-15] REC_VIOLA, REC_LUPIN
PB_VIOLA, PB_LUOIN PB_DV_ADDT[0-15]
REC_DV_ALE REC_VIOLA, REC_LUPIN
REC_DV_RD REC_VIOLA, REC_LUPIN
REC_DV_WR REC_VIOLA, REC_LUPIN
REC_LUPIN_RST REC_LUPIN
REC_VIOLA_RST REC_VIOLA
CLK18_IN REC_VIOLA, PB_VIOLA
REC_FRP REC_VIOLA
REC_SSP REC_LUPIN
REC_BD[0-3] REC_LUPIN REC_BD[0-3]
REC_EDA_SMP REC_LUPIN
REC_EDA_SSP REC_LUPIN
REC_EDA_BD[0-3] REC_LUPIN REC_EDA_BD[0-3]
REC_FS256 REC_LUPIN
REC_FS64 REC_LUPIN
REC_FS REC_LUPIN
REC_AUD12 REC_LUPIN
REC_FRM_A REC_LUPIN
REC_INF REC_VIOLA
REC_CLK0 REC_LUPIN
REC_DATA REC_LUPIN
RP_CLK REC_VIOLA
EDA_CYL_FG REC_LUPIN, PB_LUPIN
EDA_CYL_PG REC_LUPIN, PB_LUPIN
REC_HID REC_LUPIN
CLK27_IN REC_VIOLA, PB_VIOLA
REC_INV REC_VIOLA
REC_INH REC_VIOLA
PBVS PB_VIOLA
REC_Y_DATA[0-7] REC_VIOLA REC_Y_DATA[0-7]
REC_C_DATA[0-7] REC_VIOLA REC_C_DATA[0-7]
PB_VIOLA, PB_LUPIN PB_DV_ALE
PB_VIOLA, PB_LUPIN PB_DV_RD
PB_VIOLA, PB_LUPIN PB_DV_WR
PB_LUPIN PB_LUPIN_RST
PB_VIOLA PB_VIOLA_RST
PB_LUPIN PB_CLK18M2
PB_VIOLA PB_FRP
PB_LUPIN PB_SSP
PB_LUPIN PB_BD[0-3]
PB_LUPIN PB_SMP
PB_LUPIN PB_EDA_SSP
PB_LUPIN FS256
PB_LUPIN PB_EDA_BD[0-3]
PB_LUPIN PB_FS256
PB_LUPIN PB_FS64
PB_LUPIN PB_FS
PB_LUPIN PB_AUD12
PB_LUPIN PB_FRM_A
PB_VIOLA PB_INF
PB_LUPIN PB_CLK
PB_LUPIN PB_DATA
REC_LUPIN RP_DATA
REC_LUPIN TSR
REC_LUPIN SPA
PB_LUPIN PB_HID
REC_VIOLA REC_CLK135_OUT
PB_VIOLA PB_CLK135_OUT
PB_VIOLA PB_INV
PB_VIOLA PB_INH
PB_VIOLA PBHS
PB_Y_DATA[0-7] PB_VIOLA PB_Y_DATA[0-7]
PB_C_DATA[0-7] PB_VIOLA PB_C_DATA[0-7]
JP3000 VJR1008
DGND
DGND
DGND

COMPONENT NAME	CSP SUB (CONNECTOR)	01/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (1/6)	
	SCM057	


REC_DV_ADDT[0-15]
REC_DV_ALE
REC_DV_WR
REC_DV_RD
REC_INV
REC_INH
CSP_CON
REC_INF
REC_C_DATA[0-7]
R3100 0/J3
+3.2V-1
+2.2V-3
REC_Y_DATA[0-7]
C3104 0.1/UFV
REC_CLK135_OUT
TDI_REC_LUPIN
REC_CLK18M1
REC_CLK18M2
REC_CAS_HD
REC_CAS_VD
REC_DSF[0-7]
CP3100
CP3101
REC_LUPIN
REC VIOLA
IC3101
C1AB00000922
[T3W34XB:VIOLA2]
TP3101
TP3102
TP3103
TMS
TCK
TDI
VIOLA, LUPIN
PB VIOLA
TMS_2V
TCK_2V
R3122 220/J3
R3123 220/J3
R3124 470/J3
R3125 470/J3
R3103 100/J3
R3105 PAT/J3
R3107 100/J3
R3104 PAT/J3
R3106 1000/J3
R3108 PAT/J3
DGND
AGND
C3105 0.1/UFV
C3106 0.1/UFV
C3103 0.1/UFV
C3102 0.1/UFV
C3124 0.1/UFV
C3125 0.1/UFV
R3118 0/J3
R3119 0/J3
FRP
CP3102
REC_LUPIN, CSP_CON
REC_FRP
TP3104
R3120 PAT/J6
IC3100
XC62FP2502PR
+2.5V
C3100 6V47/EHB
C3101 0.1/UFV
R3126 0/J3
TP3100
REC_VIOLA_RST
R3115 1000/J3
C3112 0.01/B
R3121 0/J3
CLK18_IN
CLK27_IN
C3107 0.1/UFV
C3113 0.1/UFV
C3114 0.1/UFV
C3117 0.1/UFV
C3120 0.1/UFV
C3108 0.1/UFV
C3122 0.1/UFV
C3123 0.1/UFV
R3127 0/J3
R3116 0/J3
R3117 0/J3
A
B
C
D
E
F
G
H
I
J
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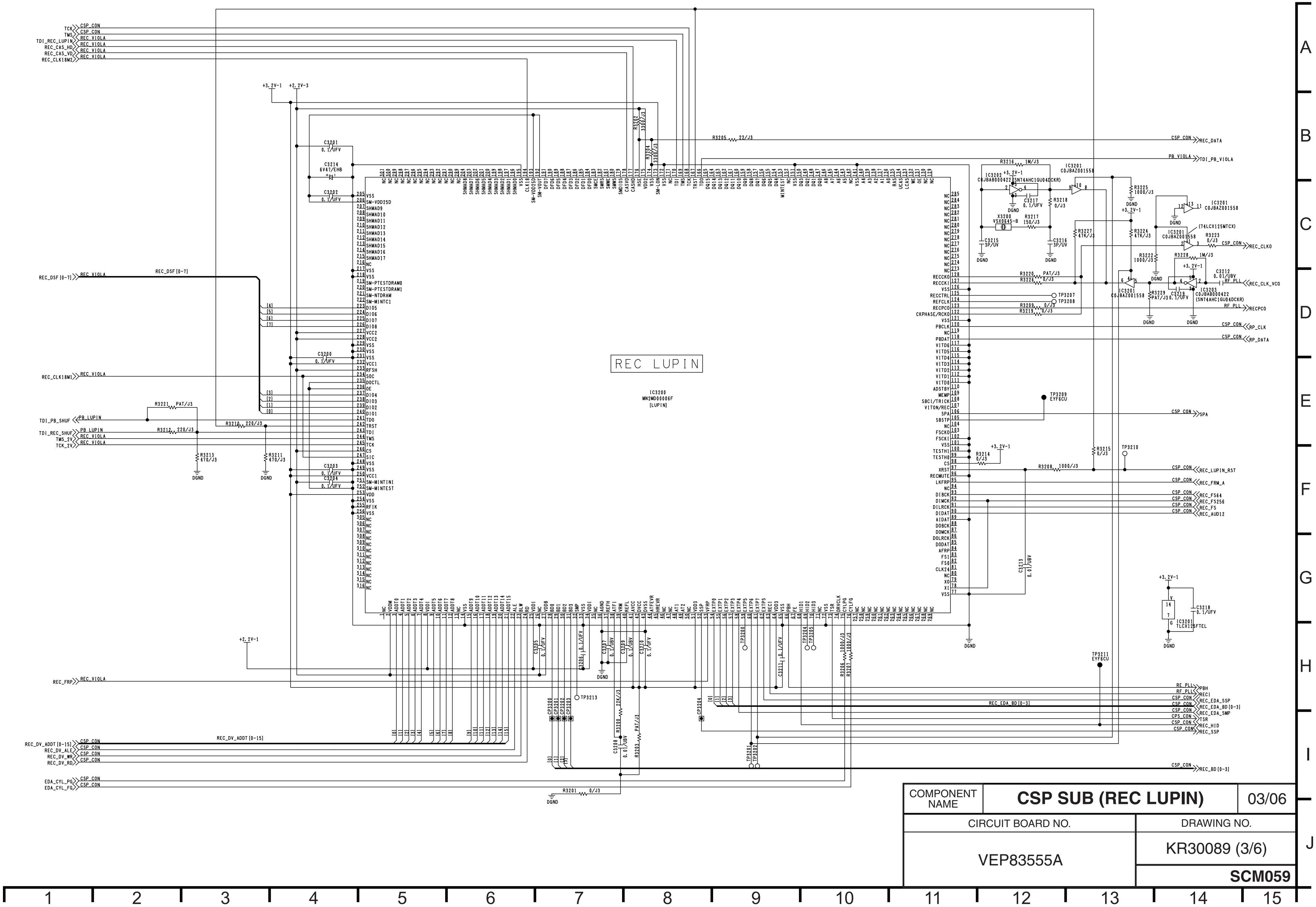
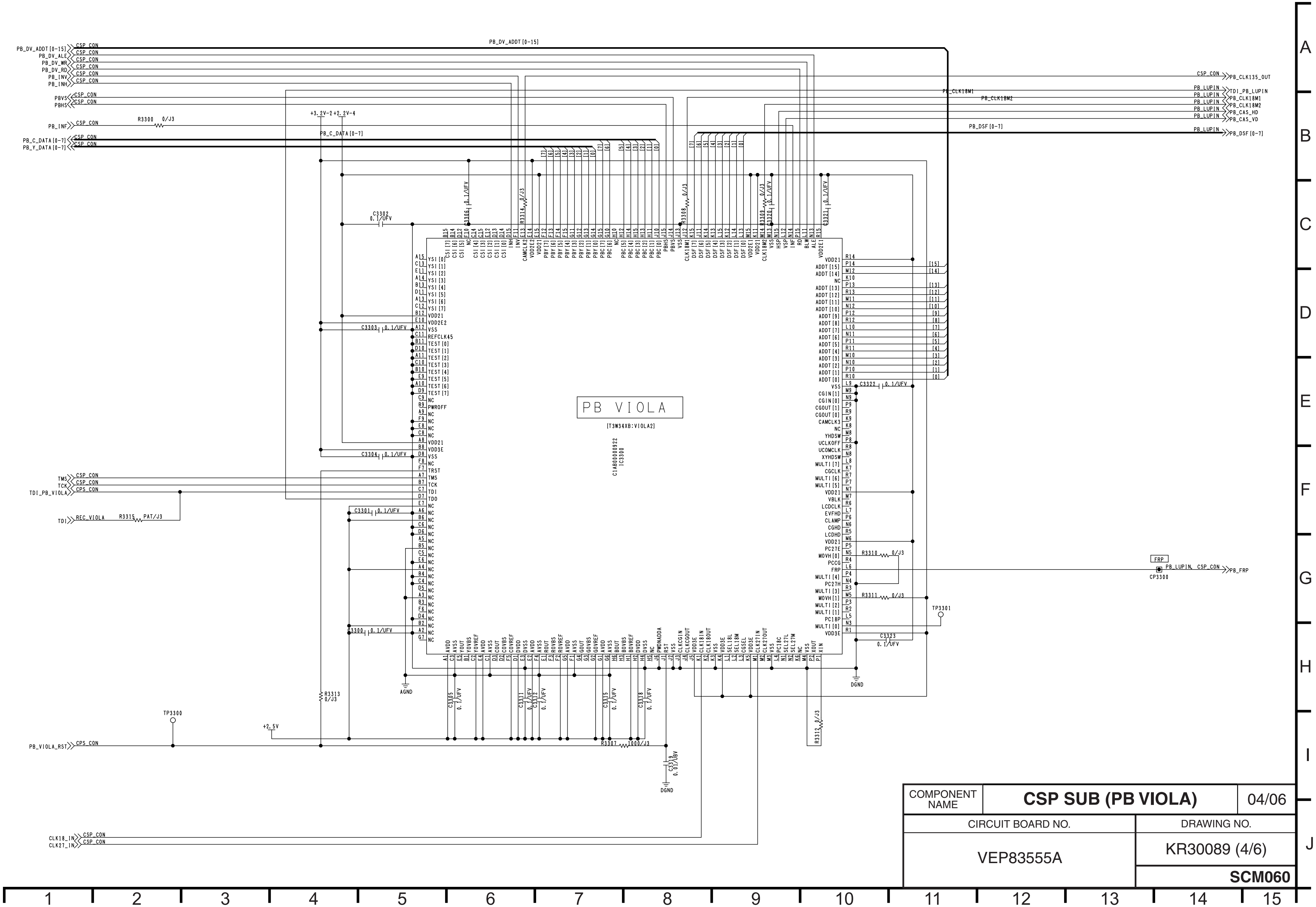
COMPONENT NAME	CSP SUB (REC VIOLA)	02/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (2/6)	
	SCM058	


REC LUPIN
IC3200
MN2MD0006F
[LUPIN]
TCK
TMS
TDI_REC_LUPIN
REC_CAS_HD
REC_CAS_VD
REC_CLK18M2
REC_DSF[0-7]
REC_CLK18M1
TDI_PB_SHUF
TDI_REC_SHUF
TMS_2V
TCK_2V
REC_FRP
REC_DV_ADDT[0-15]
REC_DV_ALE
REC_DV_WR
REC_DV_RD
EDA_CYL_PG
EDA_CYL_FG
REC_DATA
TDI_PB_VIOLA
REC_CLKO
REC_CLK_VCO
RECPCO
RP_CLK
RP_DATA
SPA
REC_LUPIN_RST
REC_FRM_A
REC_FS64
REC_FS256
REC_FS
REC_AUD12
PBH
RECI
REC_EDA_SSP
REC_EDA_BD[0-3]
REC_EDA_SMP
TSR
REC_HID
REC_SSP
REC_BD[0-3]
CSP_CON
REC_VIOLA
PB_LUPIN
PB_VIOLA
RF_PLL
+3.2V-1
+2.2V-3
+2.2V-1
DGND
IC3201
C0JBAZ001558
IC3202
C0JBAB000422
(SN74AHC1GU04DCKR)
IC3203
(74LCX125MTCX)
TLCX125FTEL
X3200
VSX0645-B
TP3207
TP3208
TP3209
EYF6CU
TP3210
TP3211
TP3213

COMPONENT NAME	CSP SUB (REC LUPIN)	03/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (3/6)	
	SCM059	


PB_DV_ADDT[0-15]
PB_DV_ALE
PB_DV_WR
PB_DV_RD
PB_INV
PB_INH
PBVS
PBHS
PB_INF
PB_C_DATA[0-7]
PB_Y_DATA[0-7]
CSP_CON
R3300 0/J3
+3.2V-2
+2.2V-4
PB_CLK135_OUT
TDI_PB_LUPIN
PB_CLK18M1
PB_CLK18M2
PB_CAS_HD
PB_CAS_VD
PB_DSF[0-7]
PB_LUPIN
PB VIOLA
[T3W34XB:VIOLA2]
C1AB00000922
IC3300
C3302 0.1/UFV
C3303 0.1/UFV
C3304 0.1/UFV
C3301 0.1/UFV
C3300 0.1/UFV
C3306 0.1/UFV
R3314 0/J3
R3308 0/J3
R3309 0/J3
C3320 0.1/UFV
C3321 0.1/UFV
C3322 0.1/UFV
C3323 0.1/UFV
R3310 0/J3
R3311 0/J3
R3312 0/J3
R3313 0/J3
R3315 PAT/J3
R3307 1000/J3
C3305 0.1/UFV
C3311 0.1/UFV
C3312 0.1/UFV
C3315 0.1/UFV
C3318 0.1/UFV
C3319 0.01/UBV
TMS
TCK
TDI_PB_VIOLA
TDI
REC_VIOLA
CPS_CON
FRP
CP3300
PB_LUPIN, CSP_CON
PB_FRP
TP3300
TP3301
+2.5V
PB_VIOLA_RST
AGND
DGND
CLK18_IN
CLK27_IN
A
B
C
D
E
F
G
H
I
J
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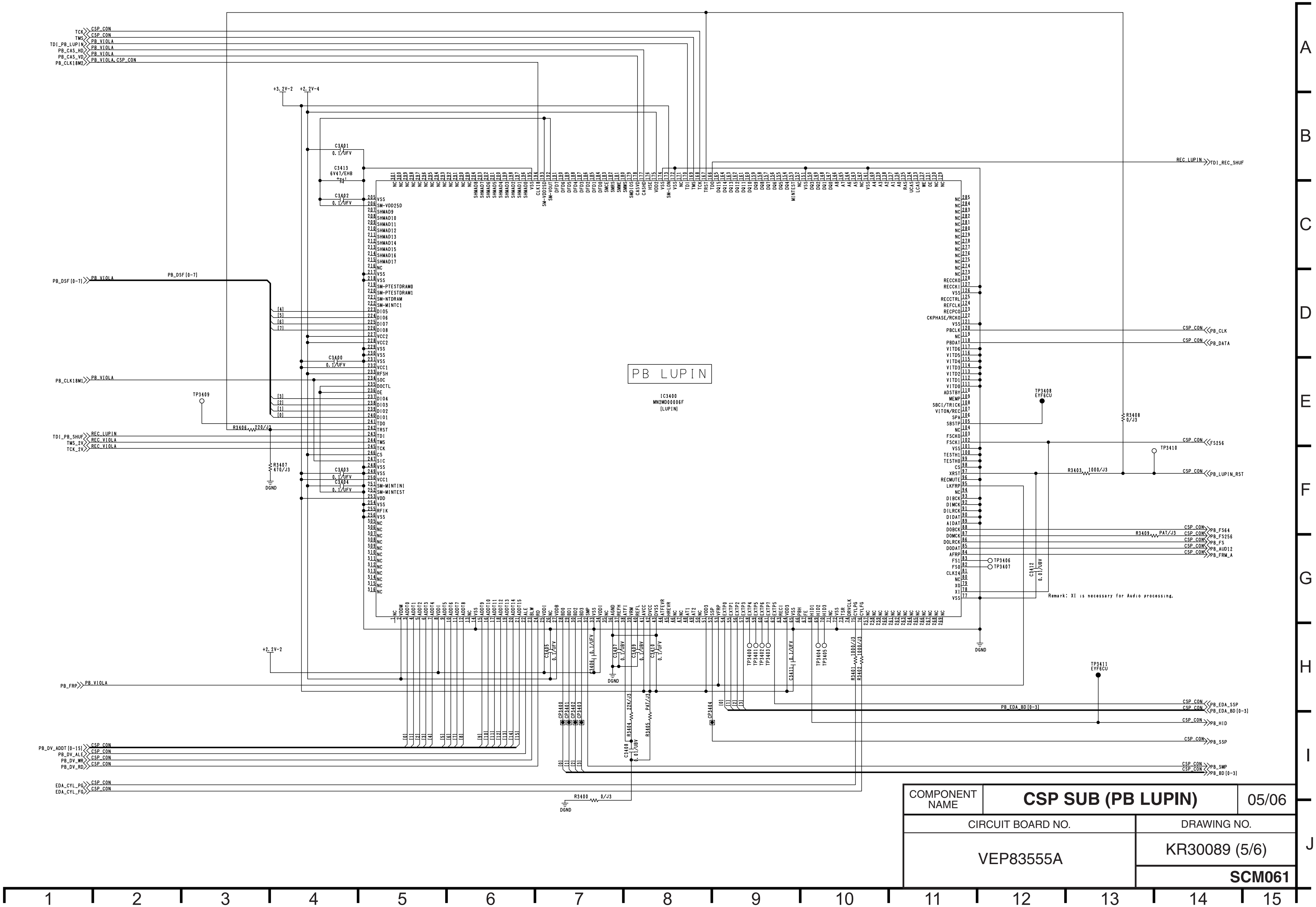
COMPONENT NAME	CSP SUB (PB VIOLA)	04/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (4/6)	
	SCM060	


TCK
TMS
TDI_PB_LUPIN
PB_CAS_HD
PB_CAS_VD
PB_CLK18M2
CSP_CON
PB_VIOLA
PB_VIOLA, CSP_CON
+3.2V-2
+2.2V-4
C3401 0.1/UFV
C3413 6V47/EHB
C3402 0.1/UFV
PB_DSF[0-7]
PB_CLK18M1
TP3409
R3406 220/J3
TDI_PB_SHUF
TMS_2V
TCK_2V
REC_LUPIN
REC_VIOLA
R3407 470/J3
DGND
C3400 0.1/UFV
C3403 0.1/UFV
C3404 0.1/UFV
PB LUPIN
IC3400
MN2MD00006F
[LUPIN]
REC_LUPIN
TDI_REC_SHUF
PB_CLK
PB_DATA
TP3408 EYF6CU
R3408 0/J3
FS256
TP3410
R3403 1000/J3
PB_LUPIN_RST
R3409 PAT/J3
PB_FS64
PB_FS256
PB_FS
PB_AUD12
PB_FRM_A
TP3406
TP3407
C3412 0.01/UBV
Remark: XI is necessary for Audio processing.
+2.2V-2
PB_FRP
PB_VIOLA
C3405 0.1/UFV
C3406 0.1/UFV
C3407 0.01/UBV
C3409 0.01/UBV
C3410 0.1/UFV
C3411 0.1/UFV
C3408 0.1/UBV
CP3400
CP3401
CP3402
CP3403
CP3404
R3404 22K/J3
R3405 PAT/J3
R3401 1000/J3
R3402 1000/J3
TP3400
TP3401
TP3402
TP3403
TP3404
TP3405
TP3411 EYF6CU
PB_EDA_BD[0-3]
PB_EDA_SSP
PB_HID
PB_SSP
PB_SMP
PB_BD[0-3]
PB_DV_ADDT[0-15]
PB_DV_ALE
PB_DV_WR
PB_DV_RD
EDA_CYL_PG
EDA_CYL_FG
R3400 0/J3
A
B
C
D
E
F
G
H
I
J
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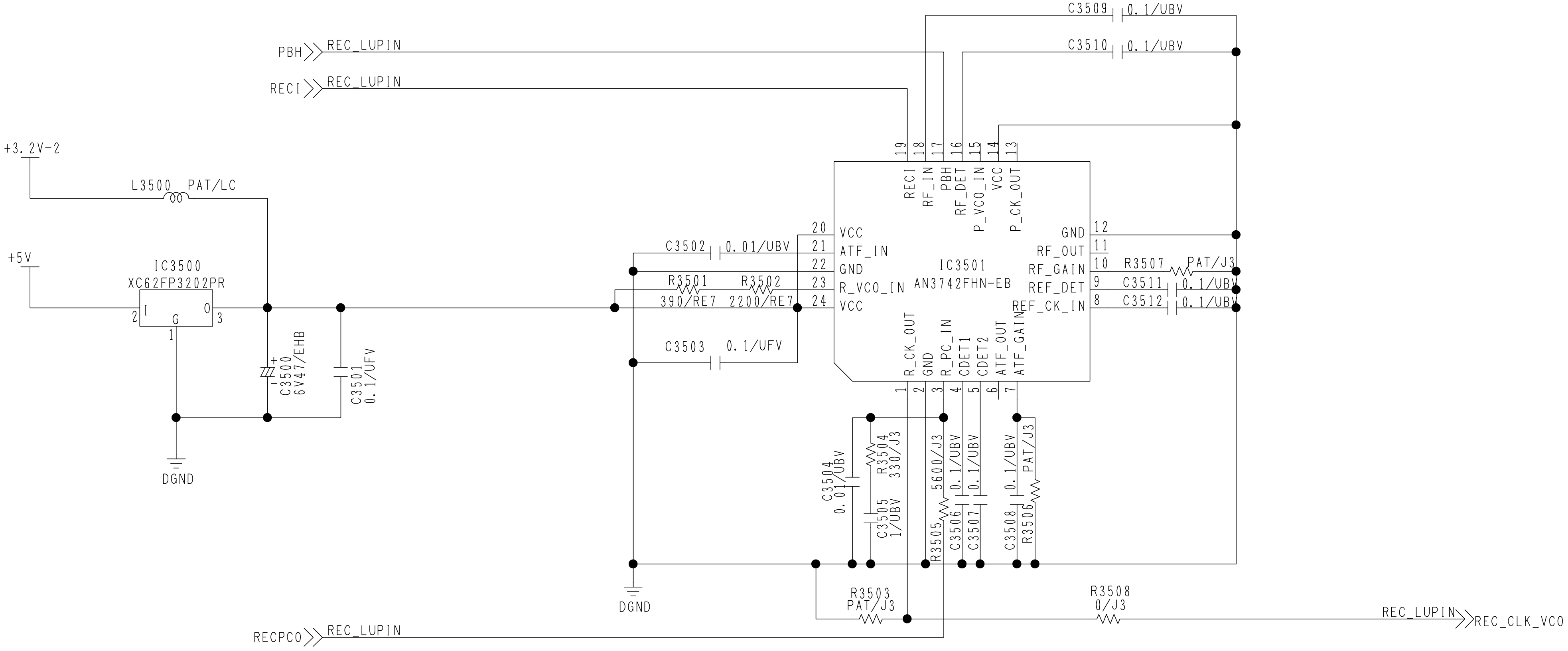
COMPONENT NAME
CSP SUB (PB LUPIN)
05/06

CIRCUIT BOARD NO.
VEP83555A

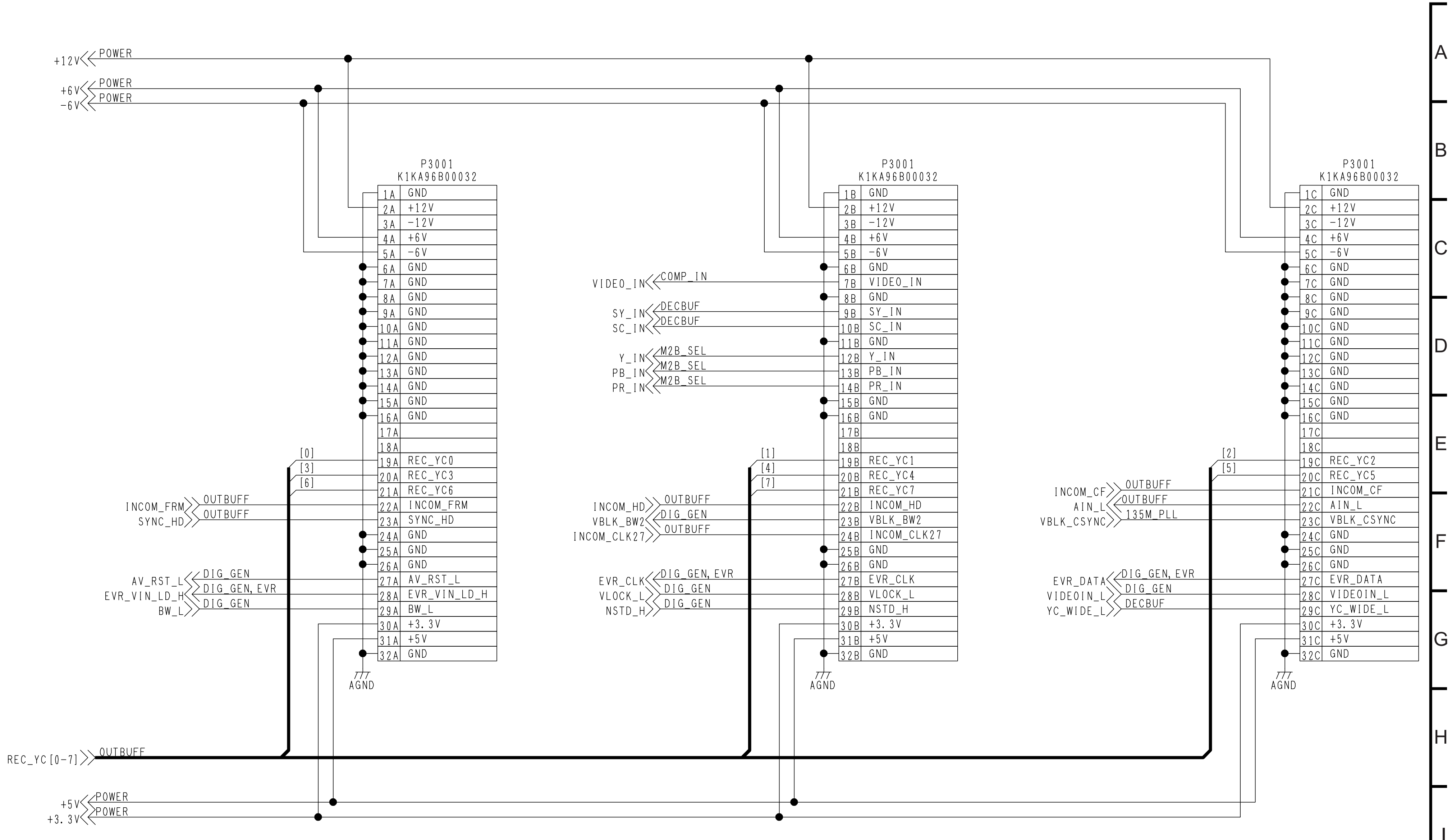
DRAWING NO.
KR30089 (5/6)

SCM061


PBH
REC_LUPIN
RECI
REC_LUPIN
RECPCO
REC_LUPIN
REC_LUPIN
REC_CLK_VCO
+3.2V-2
L3500 PAT/LC
+5V
IC3500
XC62FP3202PR
I
G
O
DGND
C3500 6V47/EHB
C3501 0.1/UFV
C3502 0.01/UBV
C3503 0.1/UFV
R3501 390/RE7
R3502 2200/RE7
IC3501
AN3742FHN-EB
VCC
ATF_IN
GND
R_VCO_IN
VCC
RECI
RF_IN
PBH
RF_DET
P_VCO_IN
VCC
P_CK_OUT
GND
RF_OUT
RF_GAIN
REF_DET
REF_CK_IN
R_CK_OUT
GND
R_PC_IN
CDET1
CDET2
ATF_OUT
ATF_GAIN
C3509 0.1/UBV
C3510 0.1/UBV
R3507 PAT/J3
C3511 0.1/UBV
C3512 0.1/UBV
C3504 0.01/UBV
C3505 1/UBV
R3504 330/J3
R3505 5600/J3
C3506 0.1/UBV
C3507 0.1/UBV
C3508 0.1/UBV
R3506 PAT/J3
R3503 PAT/J3
R3508 0/J3
DGND

Ref No.3500〜 Series.

COMPONENT NAME	CSP SUB (RF_PLL)	06/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (6/6)	
	SCM062	


+12V POWER
+6V POWER
-6V POWER
P3001
K1KA96B00032
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A GND
7A GND
8A GND
9A GND
10A GND
11A GND
12A GND
13A GND
14A GND
15A GND
16A GND
17A
18A
19A REC_YC0
20A REC_YC3
21A REC_YC6
22A INCOM_FRM
23A SYNC_HD
24A GND
25A GND
26A GND
27A AV_RST_L
28A EVR_VIN_LD_H
29A BW_L
30A +3.3V
31A +5V
32A GND
[0]
[3]
[6]
INCOM_FRM OUTBUFF
SYNC_HD OUTBUFF
AV_RST_L DIG_GEN
EVR_VIN_LD_H DIG_GEN, EVR
BW_L DIG_GEN
AGND
P3001
K1KA96B00032
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B GND
7B VIDEO_IN
8B GND
9B SY_IN
10B SC_IN
11B GND
12B Y_IN
13B PB_IN
14B PR_IN
15B GND
16B GND
17B
18B
19B REC_YC1
20B REC_YC4
21B REC_YC7
22B INCOM_HD
23B VBLK_BW2
24B INCOM_CLK27
25B GND
26B GND
27B EVR_CLK
28B VLOCK_L
29B NSTD_H
30B +3.3V
31B +5V
32B GND
VIDEO_IN COMP_IN
SY_IN DECBUF
SC_IN DECBUF
Y_IN M2B_SEL
PB_IN M2B_SEL
PR_IN M2B_SEL
[1]
[4]
[7]
INCOM_HD OUTBUFF
VBLK_BW2 DIG_GEN
INCOM_CLK27 OUTBUFF
EVR_CLK DIG_GEN, EVR
VLOCK_L DIG_GEN
NSTD_H DIG_GEN
AGND
P3001
K1KA96B00032
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C GND
7C GND
8C GND
9C GND
10C GND
11C GND
12C GND
13C GND
14C GND
15C GND
16C GND
17C
18C
19C REC_YC2
20C REC_YC5
21C INCOM_CF
22C AIN_L
23C VBLK_CSYNC
24C GND
25C GND
26C GND
27C EVR_DATA
28C VIDEOIN_L
29C YC_WIDE_L
30C +3.3V
31C +5V
32C GND
[2]
[5]
INCOM_CF OUTBUFF
AIN_L OUTBUFF
VBLK_CSYNC 135M_PLL
EVR_DATA DIG_GEN, EVR
VIDEOIN_L DIG_GEN
YC_WIDE_L DECBUF
AGND
REC_YC[0-7] OUTBUFF
+5V POWER
+3.3V POWER
A
B
C
D
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G
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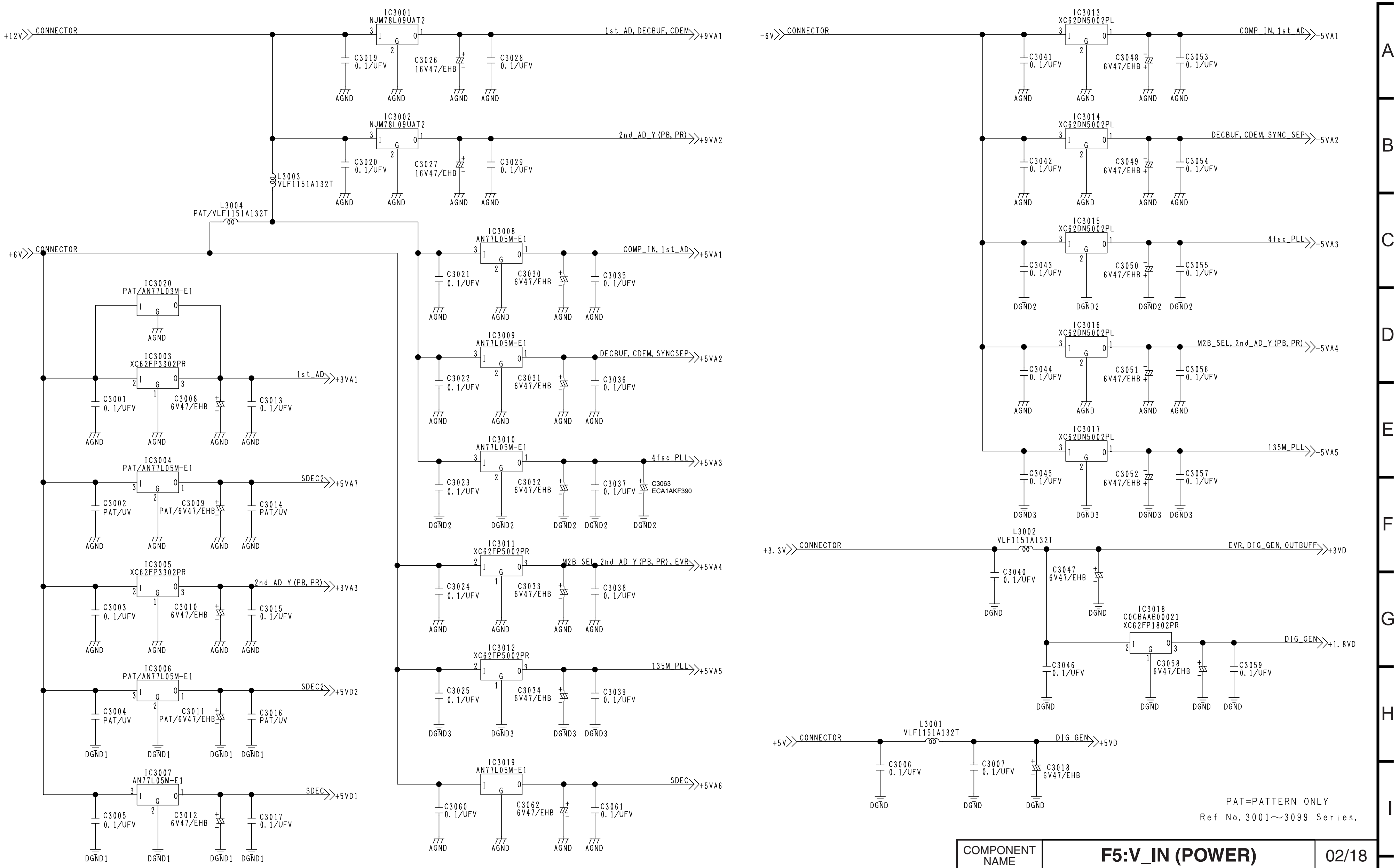
COMPONENT NAME	**F5:V_IN (CONNECTOR)**	01/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087(1/18)	
	SCM063	


+12V CONNECTOR
IC3001 NJM78L09UAT2
C3019 0.1/UFV
C3026 16V47/EHB
C3028 0.1/UFV
1st_AD, DECBUF, CDEM +9VA1
IC3002 NJM78L09UAT2
C3020 0.1/UFV
C3027 16V47/EHB
C3029 0.1/UFV
2nd_AD_Y (PB, PR) +9VA2
L3003 VLF1151A132T
L3004 PAT/VLF1151A132T
+6V CONNECTOR
IC3020 PAT/AN77L03M-E1
IC3003 XC62FP3302PR
C3001 0.1/UFV
C3008 6V47/EHB
C3013 0.1/UFV
1st_AD +3VA1
IC3004 PAT/AN77L05M-E1
C3002 PAT/UV
C3009 PAT/6V47/EHB
C3014 PAT/UV
SDEC2 +5VA7
IC3005 XC62FP3302PR
C3003 0.1/UFV
C3010 6V47/EHB
C3015 0.1/UFV
2nd_AD_Y (PB, PR) +3VA3
IC3006 PAT/AN77L05M-E1
C3004 PAT/UV
C3011 PAT/6V47/EHB
C3016 PAT/UV
SDEC2 +5VD2
IC3007 AN77L05M-E1
C3005 0.1/UFV
C3012 6V47/EHB
C3017 0.1/UFV
SDEC +5VD1
IC3008 AN77L05M-E1
C3021 0.1/UFV
C3030 6V47/EHB
C3035 0.1/UFV
COMP_IN, 1st_AD +5VA1
IC3009 AN77L05M-E1
C3022 0.1/UFV
C3031 6V47/EHB
C3036 0.1/UFV
DECBUF, CDEM, SYNCSEP +5VA2
IC3010 AN77L05M-E1
C3023 0.1/UFV
C3032 6V47/EHB
C3037 0.1/UFV
C3063 ECA1AKF390
4fsc_PLL +5VA3
IC3011 XC62FP5002PR
C3024 0.1/UFV
C3033 6V47/EHB
C3038 0.1/UFV
M2B_SEL, 2nd_AD_Y (PB, PR), EVR +5VA4
IC3012 XC62FP5002PR
C3025 0.1/UFV
C3034 6V47/EHB
C3039 0.1/UFV
135M_PLL +5VA5
IC3019 AN77L05M-E1
C3060 0.1/UFV
C3062 6V47/EHB
C3061 0.1/UFV
SDEC +5VA6
-6V CONNECTOR
IC3013 XC62DN5002PL
C3041 0.1/UFV
C3048 6V47/EHB
C3053 0.1/UFV
COMP_IN, 1st_AD -5VA1
IC3014 XC62DN5002PL
C3042 0.1/UFV
C3049 6V47/EHB
C3054 0.1/UFV
DECBUF, CDEM, SYNC_SEP -5VA2
IC3015 XC62DN5002PL
C3043 0.1/UFV
C3050 6V47/EHB
C3055 0.1/UFV
4fsc_PLL -5VA3
IC3016 XC62DN5002PL
C3044 0.1/UFV
C3051 6V47/EHB
C3056 0.1/UFV
M2B_SEL, 2nd_AD_Y (PB, PR) -5VA4
IC3017 XC62DN5002PL
C3045 0.1/UFV
C3052 6V47/EHB
C3057 0.1/UFV
135M_PLL -5VA5
+3.3V CONNECTOR
L3002 VLF1151A132T
C3040 0.1/UFV
C3047 6V47/EHB
EVR, DIG_GEN, OUTBUFF +3VD
IC3018 C0CBAAB00021 XC62FP1802PR
C3046 0.1/UFV
C3058 6V47/EHB
C3059 0.1/UFV
DIG_GEN +1.8VD
+5V CONNECTOR
L3001 VLF1151A132T
C3006 0.1/UFV
C3007 0.1/UFV
C3018 6V47/EHB
DIG_GEN +5VD
AGND
DGND
DGND1
DGND2
DGND3
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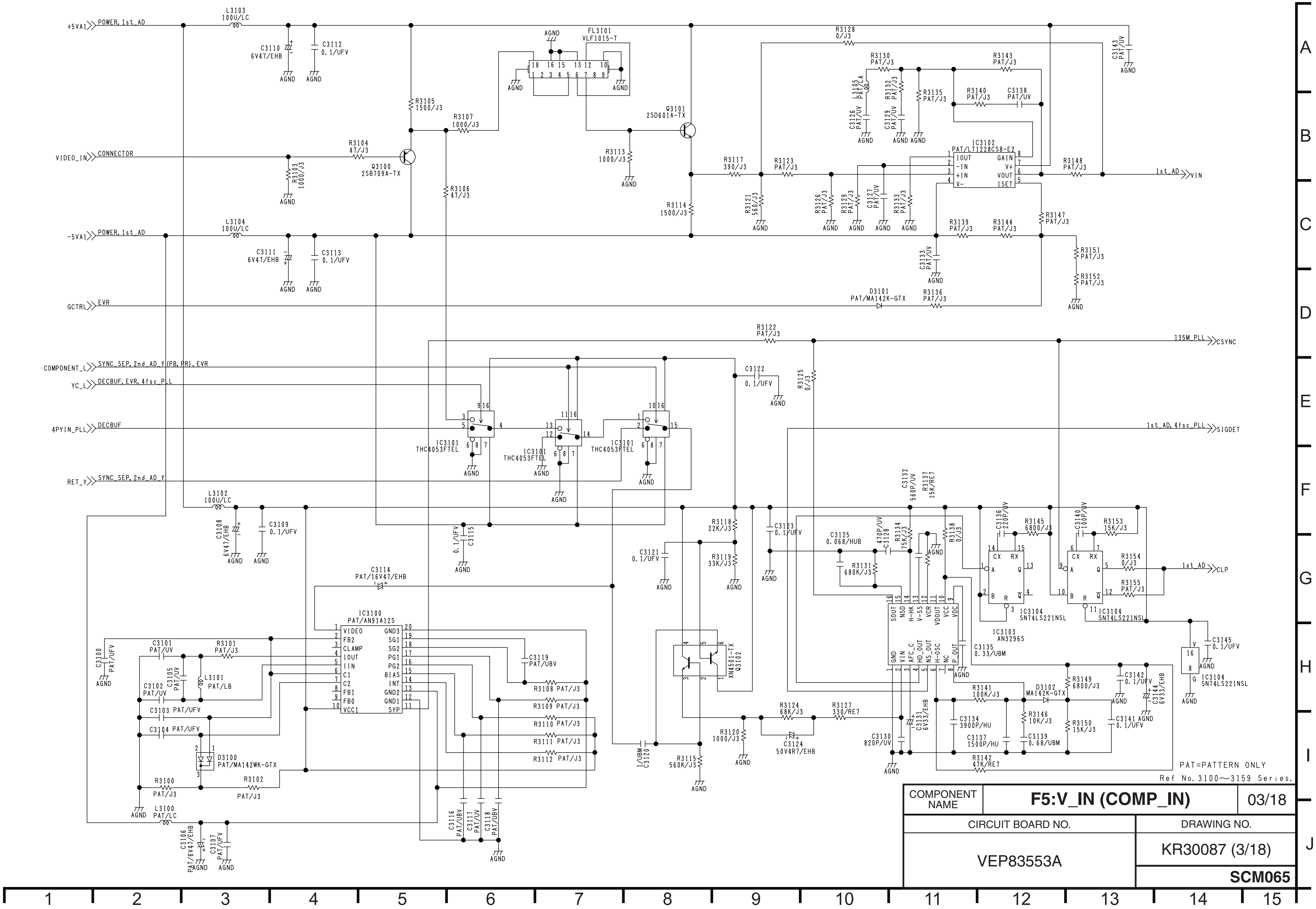
PAT=PATTERN ONLY
Ref No.3001~3099 Series.

COMPONENT NAME	F5:V_IN (POWER)	02/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (2/18)	
	SCM064	


+5VA1
POWER, 1st_AD
L3103
100U/LC
C3110
6V47/EHB
C3112
0.1/UFV
AGND
FL3101
VLF1015-T
Q3101
2SD601A-TX
R3128
0/J3
C3143
PAT/UV
R3130
PAT/J3
R3143
PAT/J3
L3105
PAT/LA
R3132
PAT/J3
R3135
PAT/J3
R3140
PAT/J3
C3138
PAT/UV
C3126
PAT/UV
C3129
PAT/UV
IC3102
PAT/LT1228CS8-E2
IOUT
-IN
+IN
V-
GAIN
V+
VOUT
ISET
R3105
1500/J3
R3107
1000/J3
VIDEO_IN
CONNECTOR
R3104
47/J3
Q3100
2SB709A-TX
R3103
1000/J3
R3113
1000/J3
R3117
390/J3
R3123
PAT/J3
R3148
PAT/J3
1st_AD
VIN
R3106
47/J3
R3114
1500/J3
R3121
560/J3
R3126
PAT/J3
R3129
PAT/J3
C3127
PAT/UV
R3133
PAT/J3
R3147
PAT/J3
-5VA1
POWER, 1st_AD
L3104
100U/LC
C3111
6V47/EHB
C3113
0.1/UFV
R3139
PAT/J3
R3144
PAT/J3
R3151
PAT/J3
R3152
PAT/J3
C3133
PAT/UV
GCTRL
EVR
D3101
PAT/MA142K-GTX
R3136
PAT/J3
R3122
PAT/J3
135M_PLL
CSYNC
COMPONENT_L
SYNC_SEP, 2nd_AD_Y(PB, PR), EVR
YC_L
DECBUF, EVR, 4fsc_PLL
C3122
0.1/UFV
R3125
0/J3
4PYIN_PLL
DECBUF
IC3101
THC4053FTEL
1st_AD, 4fsc_PLL
SIGDET
RET_Y
SYNC_SEP, 2nd_AD_Y
L3102
100U/LC
C3108
6V47/EHB
C3109
0.1/UFV
C3115
0.1/UFV
R3118
22K/J3
R3119
33K/J3
C3121
0.1/UFV
C3123
0.1/UFV
C3132
560P/UV
R3137
15K/RE7
C3125
0.068/HUB
C3128
470P/UV
R3134
75K/J3
R3131
680K/J3
R3138
0/J3
C3136
220P/UV
R3145
6800/J3
C3140
100P/UV
R3153
15K/J3
R3154
0/J3
R3155
PAT/J3
1st_AD
CLP
IC3104
SN74LS221NSL
IC3103
AN3296S
C3135
0.33/UBM
C3145
0.1/UFV
C3114
PAT/16V47/EHB
IC3100
PAT/AN91A12S
VIDEO
FB2
CLAMP
IOUT
IIN
C1
C2
FB1
FB0
VCC1
GND3
SG1
SG2
PG1
PG2
BIAS
INT
GND2
GND1
SYP
C3119
PAT/UBV
R3108 PAT/J3
R3109 PAT/J3
R3110 PAT/J3
R3111 PAT/J3
R3112 PAT/J3
C3100
PAT/UFV
C3101
PAT/UV
R3101
PAT/J3
C3105
PAT/UV
L3101
PAT/LB
C3102
PAT/UV
C3103 PAT/UFV
C3104 PAT/UFV
D3100
PAT/MA142WK-GTX
R3100
PAT/J3
R3102
PAT/J3
L3100
PAT/LC
C3106
PAT/6V47/EHB
C3107
PAT/UFV
C3116
PAT/UBV
C3117
PAT/UV
C3118
PAT/UBV
XN4501-TX
Q3102
C3120
1/UBM
R3115
560K/J3
R3120
1000/J3
R3124
68K/J3
C3124
50V4R7/EHB
R3127
330/RE7
C3130
820P/UV
C3131
6V33/EHB
R3141
100K/J3
C3134
3900P/HU
C3137
1500P/HU
R3146
10K/J3
C3139
0.68/UBM
D3102
MA142K-GTX
R3149
6800/J3
R3150
15K/J3
C3142
0.1/UFV
C3144
6V33/EHB
C3141
0.1/UFV
R3142
47K/RE7
A
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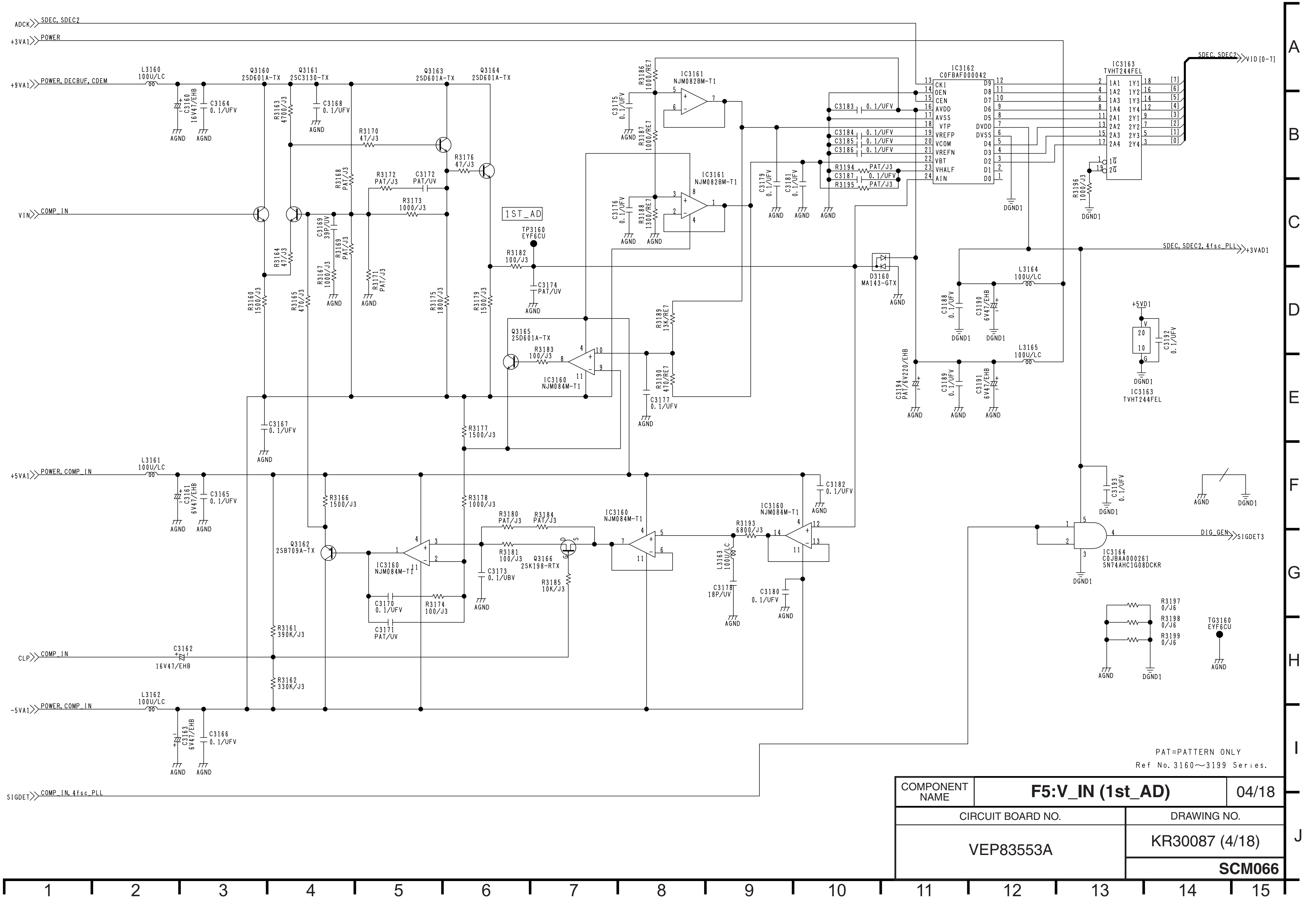
PAT=PATTERN ONLY

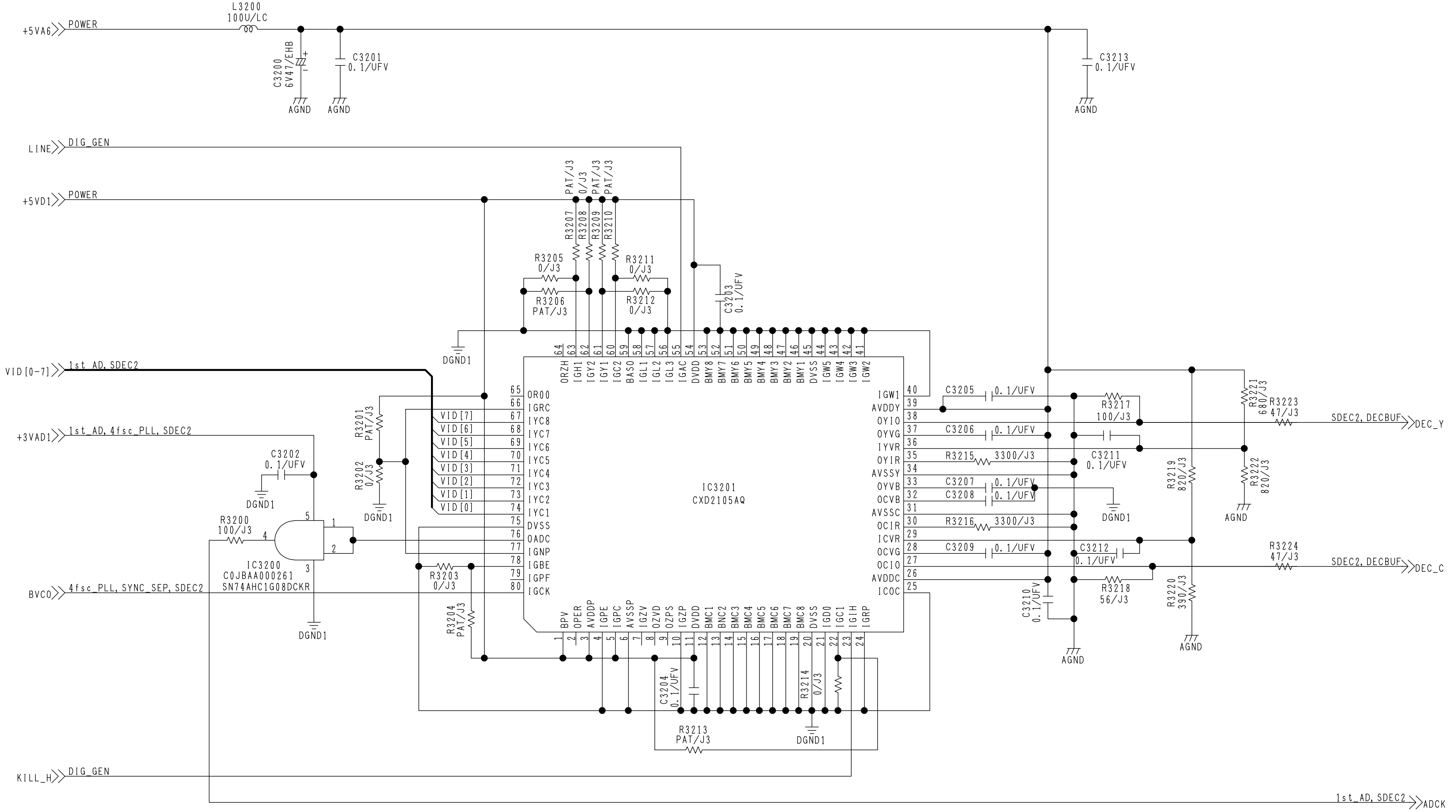
Ref No. 3100～3159 Series.

COMPONENT NAME	F5:V_IN (COMP_IN)	03/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (3/18)	
	SCM065	


ADCK SDEC, SDEC2
+3VA1 POWER
+9VA1 POWER, DECBUF, CDEM
VIN COMP_IN
+5VA1 POWER, COMP_IN
CLP COMP_IN
-5VA1 POWER, COMP_IN
SIGDET COMP_IN, 4fsc_PLL
L3160 100U/LC
L3161 100U/LC
L3162 100U/LC
L3163 100U/LC
L3164 100U/LC
L3165 100U/LC
C3160 16V47/EHB
C3161 6V47/EHB
C3162 16V47/EHB
C3163 6V47/EHB
C3164 0.1/UFV
C3165 0.1/UFV
C3166 0.1/UFV
C3167 0.1/UFV
C3168 0.1/UFV
C3169 39P/UV
C3170 0.1/UFV
C3171 PAT/UV
C3172 PAT/UV
C3173 0.1/UBV
C3174 PAT/UV
C3175 0.1/UFV
C3176 0.1/UFV
C3177 0.1/UFV
C3178 18P/UV
C3179 0.1/UFV
C3180 0.1/UFV
C3181 0.1/UFV
C3182 0.1/UFV
C3183 0.1/UFV
C3184 0.1/UFV
C3185 0.1/UFV
C3186 0.1/UFV
C3187 0.1/UFV
C3188 0.1/UFV
C3189 0.1/UFV
C3190 6V47/EHB
C3191 6V47/EHB
C3192 0.1/UFV
C3193 0.1/UFV
C3194 PAT/6V220/EHB
Q3160 2SD601A-TX
Q3161 2SC3130-TX
Q3162 2SB709A-TX
Q3163 2SD601A-TX
Q3164 2SD601A-TX
Q3165 2SD601A-TX
Q3166 2SK198-RTX
R3160 1500/J3
R3161 390K/J3
R3162 330K/J3
R3163 4700/J3
R3164 47/J3
R3165 470/J3
R3166 1500/J3
R3167 1000/J3
R3168 PAT/J3
R3169 PAT/J3
R3170 47/J3
R3171 PAT/J3
R3172 PAT/J3
R3173 1000/J3
R3174 100/J3
R3175 1800/J3
R3176 47/J3
R3177 1500/J3
R3178 1000/J3
R3179 1500/J3
R3180 PAT/J3
R3181 100/J3
R3182 100/J3
R3183 100/J3
R3184 PAT/J3
R3185 10K/J3
R3186 1000/RE7
R3187 1000/RE7
R3188 1300/RE7
R3189 13K/RE7
R3190 470/RE7
R3193 6800/J3
R3194 PAT/J3
R3195 PAT/J3
R3196 1000/J3
R3197 0/J6
R3198 0/J6
R3199 0/J6
IC3160 NJM084M-T1
IC3161 NJM082BM-T1
IC3162 C0FBAF000042
CK1 OEN CEN AVDD AVSS VTP VREFP VCOM VREFN VBT VHALF AIN
D9 D8 D7 D6 D5 DVDD DVSS D4 D3 D2 D1 D0
IC3163 TVHT244FEL
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4 1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4 1G 2G
[7] [6] [5] [4] [3] [2] [1] [0]
SDEC, SDEC2 VID[0-7]
SDEC, SDEC2, 4fsc_PLL +3VAD1
+5VD1
IC3163 TVHT244FEL
IC3164 C0JBAA000261 SN74AHC1G08DCKR
DIG_GEN SIGDET3
D3160 MA143-GTX
TP3160 EYF6CU
TG3160 EYF6CU
1ST_AD
AGND
DGND1

PAT=PATTERN ONLY
Ref No. 3160〜3199 Series.

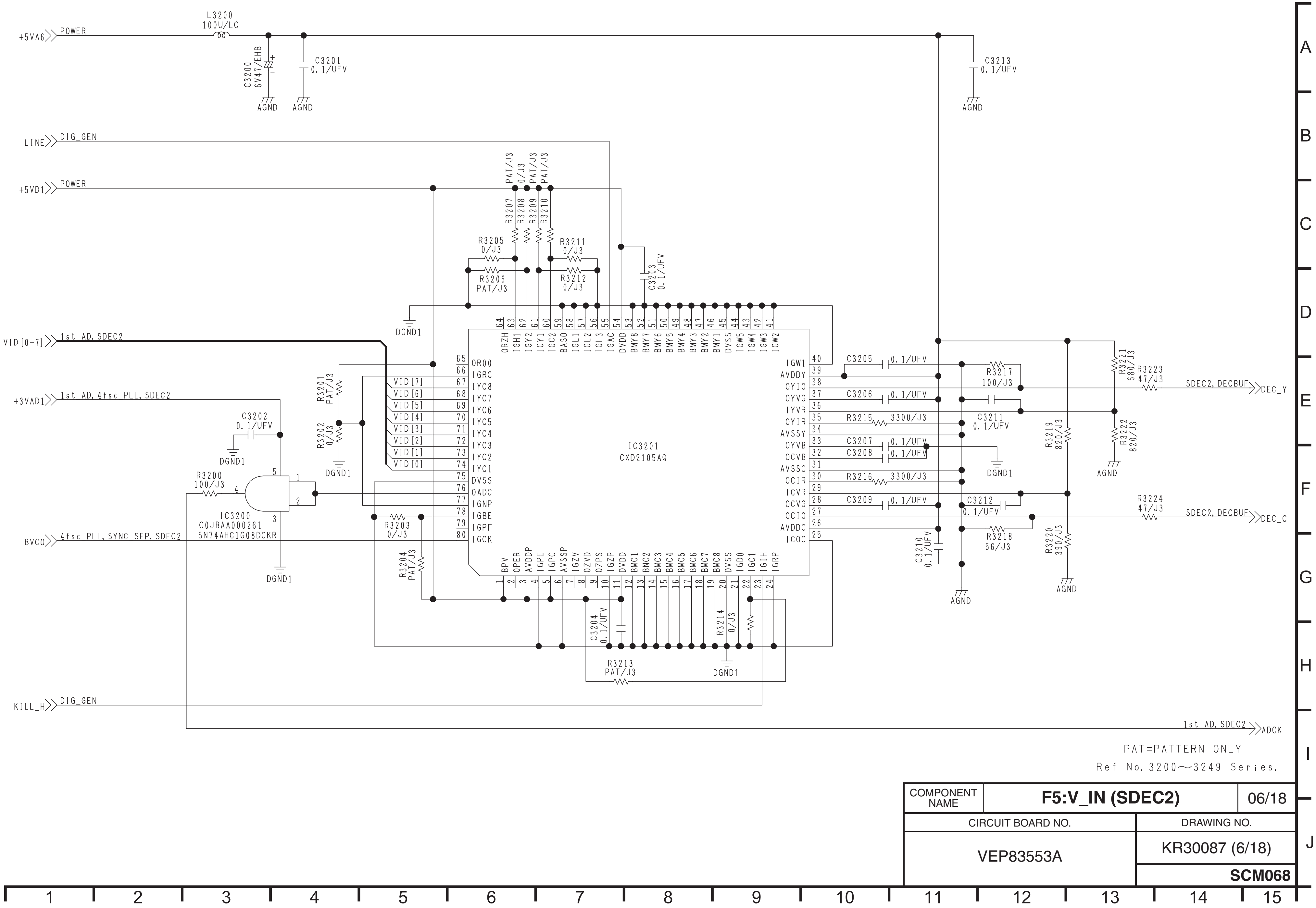
COMPONENT NAME	F5:V_IN (1st_AD)	04/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (4/18)	
	SCM066	


+5VA6
POWER
L3200
100U/LC
C3200
6V47/EHB
C3201
0.1/UFV
AGND
AGND
C3213
0.1/UFV
AGND
LINE
DIG_GEN
+5VD1
POWER
PAT/J3
0/J3
PAT/J3
PAT/J3
R3207
R3208
R3209
R3210
R3205
0/J3
R3206
PAT/J3
R3211
0/J3
R3212
0/J3
C3203
0.1/UFV
DGND1
VID[0-7]
1st_AD, SDEC2
+3VAD1
1st_AD, 4fsc_PLL, SDEC2
C3202
0.1/UFV
DGND1
R3200
100/J3
IC3200
C0JBAA000261
SN74AHC1G08DCKR
DGND1
BVCO
4fsc_PLL, SYNC_SEP, SDEC2
R3201
PAT/J3
R3202
0/J3
DGND1
R3203
0/J3
R3204
PAT/J3
VID[7]
VID[6]
VID[5]
VID[4]
VID[3]
VID[2]
VID[1]
VID[0]
IC3201
CXD2105AQ
ORZH IGH1 IGY2 IGY1 IGC2 BASO IGL1 IGL2 IGL3 IGAC DVDD BMY8 BMY7 BMY6 BMY5 BMY4 BMY3 BMY2 BMY1 DVSS IGW5 IGW4 IGW3 IGW2
OR00 IGRC IYC8 IYC7 IYC6 IYC5 IYC4 IYC3 IYC2 IYC1 DVSS OADC IGNP IGBE IGPF IGCK
BPV OPER AVDDP IGPE IGPC AVSSP IGZV OZVD OZPS IGZP DVDD BMC1 BMC2 BMC3 BMC4 BMC5 BMC6 BMC7 BMC8 DVSS IGD0 IGC1 IGIH IGRP
IGW1 AVDDY OYIO OYVG IYVR OYIR AVSSY OYVB OCVB AVSSC OCIR ICVR OCVG OCIO AVDDC ICOC
C3204
0.1/UFV
R3213
PAT/J3
R3214
0/J3
DGND1
C3205
0.1/UFV
C3206
0.1/UFV
R3215
3300/J3
C3207
0.1/UFV
C3208
0.1/UFV
R3216
3300/J3
C3209
0.1/UFV
R3217
100/J3
C3211
0.1/UFV
DGND1
C3212
0.1/UFV
R3218
56/J3
C3210
0.1/UFV
AGND
R3219
820/J3
R3220
390/J3
AGND
R3221
680/J3
R3222
820/J3
AGND
R3223
47/J3
R3224
47/J3
SDEC2, DECBUF
DEC_Y
SDEC2, DECBUF
DEC_C
KILL_H
DIG_GEN
1st_AD, SDEC2
ADCK

PAT=PATTERN ONLY

Ref No.3200～3249 Series.

COMPONENT NAME	F5:V_IN (SDEC)	05/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087(5/18)	
	SCM067	


+5VA6
POWER
L3200
100U/LC
C3200
6V47/EHB
C3201
0.1/UFV
AGND
C3213
0.1/UFV
LINE
DIG_GEN
+5VD1
POWER
PAT/J3
0/J3
PAT/J3
PAT/J3
R3207
R3208
R3209
R3210
R3205
0/J3
R3206
PAT/J3
R3211
0/J3
R3212
0/J3
C3203
0.1/UFV
DGND1
VID[0-7]
1st_AD, SDEC2
+3VAD1
1st_AD, 4fsc_PLL, SDEC2
C3202
0.1/UFV
R3201
PAT/J3
R3202
0/J3
VID[7]
VID[6]
VID[5]
VID[4]
VID[3]
VID[2]
VID[1]
VID[0]
R3200
100/J3
IC3200
C0JBAA000261
SN74AHC1G08DCKR
BVCO
4fsc_PLL, SYNC_SEP, SDEC2
R3203
0/J3
R3204
PAT/J3
IC3201
CXD2105AQ
ORZH IGH1 IGY2 IGY1 IGC2 BASO IGL1 IGL2 IGL3 IGAC DVDD BMY8 BMY7 BMY6 BMY5 BMY4 BMY3 BMY2 BMY1 DVSS IGW5 IGW4 IGW3 IGW2
64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41
OR00 65
IGRC 66
IYC8 67
IYC7 68
IYC6 69
IYC5 70
IYC4 71
IYC3 72
IYC2 73
IYC1 74
DVSS 75
OADC 76
IGNP 77
IGBE 78
IGPF 79
IGCK 80
IGW1 40
AVDDY 39
OYIO 38
OYVG 37
IYVR 36
OYIR 35
AVSSY 34
OYVB 33
OCVB 32
AVSSC 31
OCIR 30
ICVR 29
OCVG 28
OCIO 27
AVDDC 26
ICOC 25
BPV OPER AVDDP IGPE IGPC AVSSP IGZV OZVD OZPS IGZP DVDD BMC1 BMC2 BMC3 BMC4 BMC5 BMC6 BMC7 BMC8 DVSS IGD0 IGC1 IGIH IGRP
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
C3204
0.1/UFV
R3214
0/J3
R3213
PAT/J3
DGND1
C3205
0.1/UFV
C3206
0.1/UFV
R3215
3300/J3
C3207
0.1/UFV
C3208
0.1/UFV
R3216
3300/J3
C3209
0.1/UFV
R3217
100/J3
C3211
0.1/UFV
C3212
0.1/UFV
R3218
56/J3
C3210
0.1/UFV
R3219
820/J3
R3220
390/J3
R3221
680/J3
R3222
820/J3
R3223
47/J3
R3224
47/J3
SDEC2, DECBUF
DEC_Y
DEC_C
KILL_H
DIG_GEN
1st_AD, SDEC2
ADCK
A
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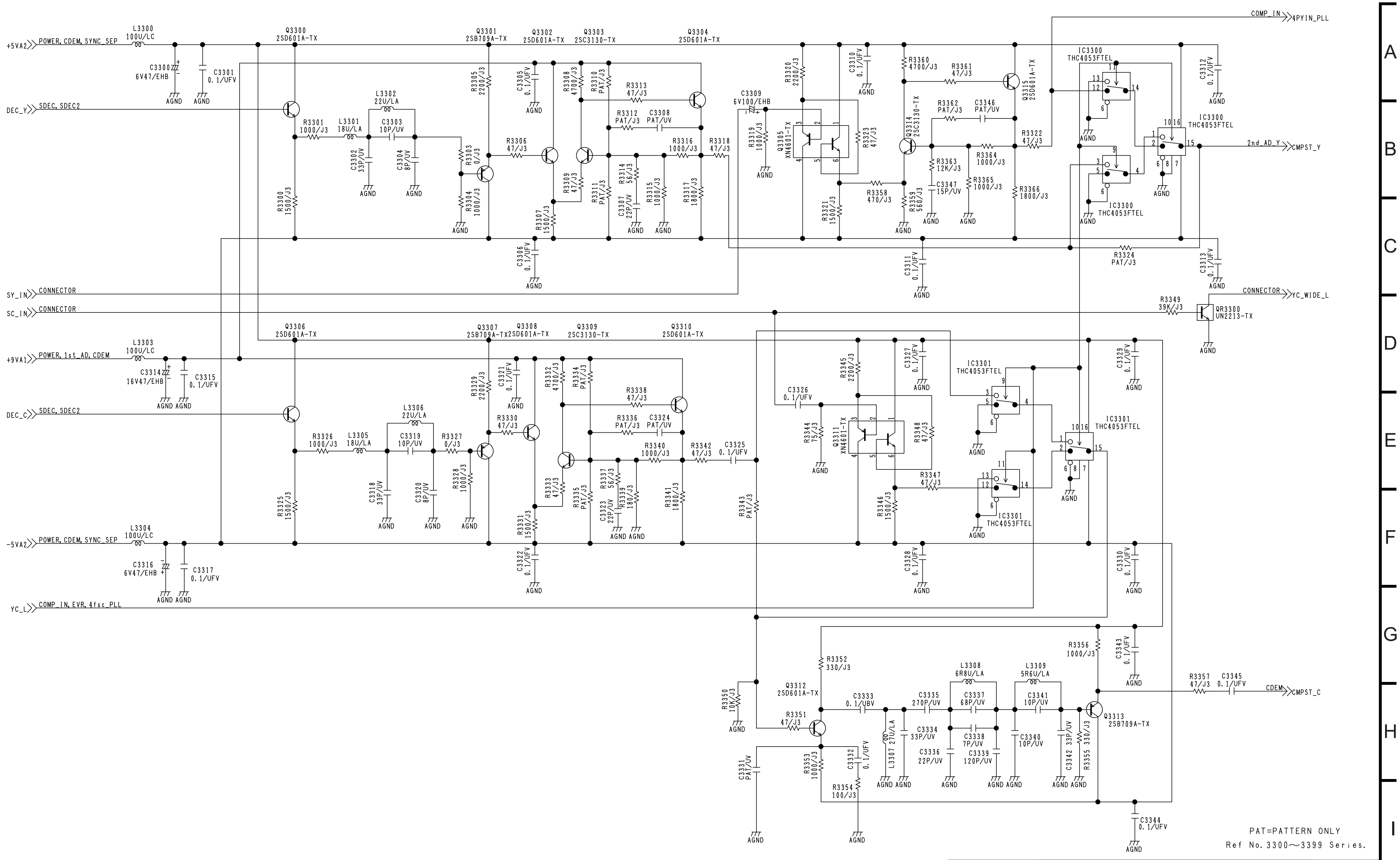
PAT=PATTERN ONLY

Ref No. 3200～3249 Series.

COMPONENT NAME	F5:V_IN (SDEC2)	06/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (6/18)	
	SCM068	


+5VA2
POWER, CDEM, SYNC_SEP
L3300 100U/LC
C3300 6V47/EHB
C3301 0.1/UFV
DEC_Y
SDEC, SDEC2
Q3300 2SD601A-TX
Q3301 2SB709A-TX
Q3302 2SD601A-TX
Q3303 2SC3130-TX
Q3304 2SD601A-TX
R3301 1000/J3
L3301 18U/LA
L3302 22U/LA
C3303 10P/UV
C3302 33P/UV
C3304 8P/UV
R3300 1500/J3
R3303 0/J3
R3304 1000/J3
R3305 2200/J3
R3306 47/J3
C3305 0.1/UFV
C3306 0.1/UFV
R3307 1500/J3
R3308 4700/J3
R3309 47/J3
R3310 PAT/J3
R3311 PAT/J3
R3312 PAT/J3
C3308 PAT/UV
R3313 47/J3
R3314 56/J3
C3307 22P/UV
R3315 1000/J3
R3316 1000/J3
R3317 1800/J3
R3318 47/J3
C3309 6V100/EHB
R3319 1000/J3
R3320 2200/J3
Q3305 XN4601-TX
R3321 1500/J3
R3323 47/J3
C3310 0.1/UFV
R3358 470/J3
R3360 4700/J3
R3361 47/J3
Q3314 2SC3130-TX
Q3315 2SD601A-TX
R3362 PAT/J3
C3346 PAT/UV
R3363 12K/J3
R3364 1000/J3
C3347 15P/UV
R3365 1000/J3
R3359 560/J3
R3366 1800/J3
R3322 47/J3
C3311 0.1/UFV
IC3300 THC4053FTEL
C3312 0.1/UFV
COMP_IN
4PYIN_PLL
2nd_AD_Y
CMPST_Y
R3324 PAT/J3
C3313 0.1/UFV
SY_IN
SC_IN
CONNECTOR
R3349 39K/J3
QR3300 UN2213-TX
YC_WIDE_L
+9VA1
POWER, 1st_AD, CDEM
L3303 100U/LC
C3314 16V47/EHB
C3315 0.1/UFV
DEC_C
Q3306 2SD601A-TX
Q3307 2SB709A-TX
Q3308 2SD601A-TX
Q3309 2SC3130-TX
Q3310 2SD601A-TX
R3326 1000/J3
L3305 18U/LA
L3306 22U/LA
C3319 10P/UV
R3327 0/J3
C3318 33P/UV
C3320 8P/UV
R3328 1000/J3
R3325 1500/J3
R3329 2200/J3
C3321 0.1/UFV
R3330 47/J3
R3331 1500/J3
C3322 0.1/UFV
R3332 4700/J3
R3333 47/J3
R3334 PAT/J3
R3335 PAT/J3
R3338 47/J3
R3336 PAT/J3
C3324 PAT/UV
R3340 1000/J3
R3337 56/J3
C3323 22P/UV
R3339 180/J3
R3341 1800/J3
R3342 47/J3
C3325 0.1/UFV
R3343 PAT/J3
C3326 0.1/UFV
R3344 75/J3
R3345 2200/J3
Q3311 XN4601-TX
C3327 0.1/UFV
R3348 47/J3
R3347 47/J3
R3346 1500/J3
C3328 0.1/UFV
IC3301 THC4053FTEL
C3329 0.1/UFV
C3330 0.1/UFV
-5VA2
L3304 100U/LC
C3316 6V47/EHB
C3317 0.1/UFV
YC_L
COMP_IN, EVR, 4fsc_PLL
R3350 10K/J3
R3352 330/J3
Q3312 2SD601A-TX
R3351 47/J3
C3331 PAT/UV
R3353 1000/J3
C3332 0.1/UFV
R3354 100/J3
C3333 0.1/UBV
L3307 27U/LA
C3334 33P/UV
C3335 270P/UV
C3336 22P/UV
L3308 6R8U/LA
C3337 68P/UV
C3338 7P/UV
C3339 120P/UV
L3309 5R6U/LA
C3341 10P/UV
C3340 10P/UV
C3342 33P/UV
R3355 330/J3
R3356 1000/J3
C3343 0.1/UFV
Q3313 2SB709A-TX
R3357 47/J3
C3345 0.1/UFV
CDEM
CMPST_C
C3344 0.1/UFV
AGND
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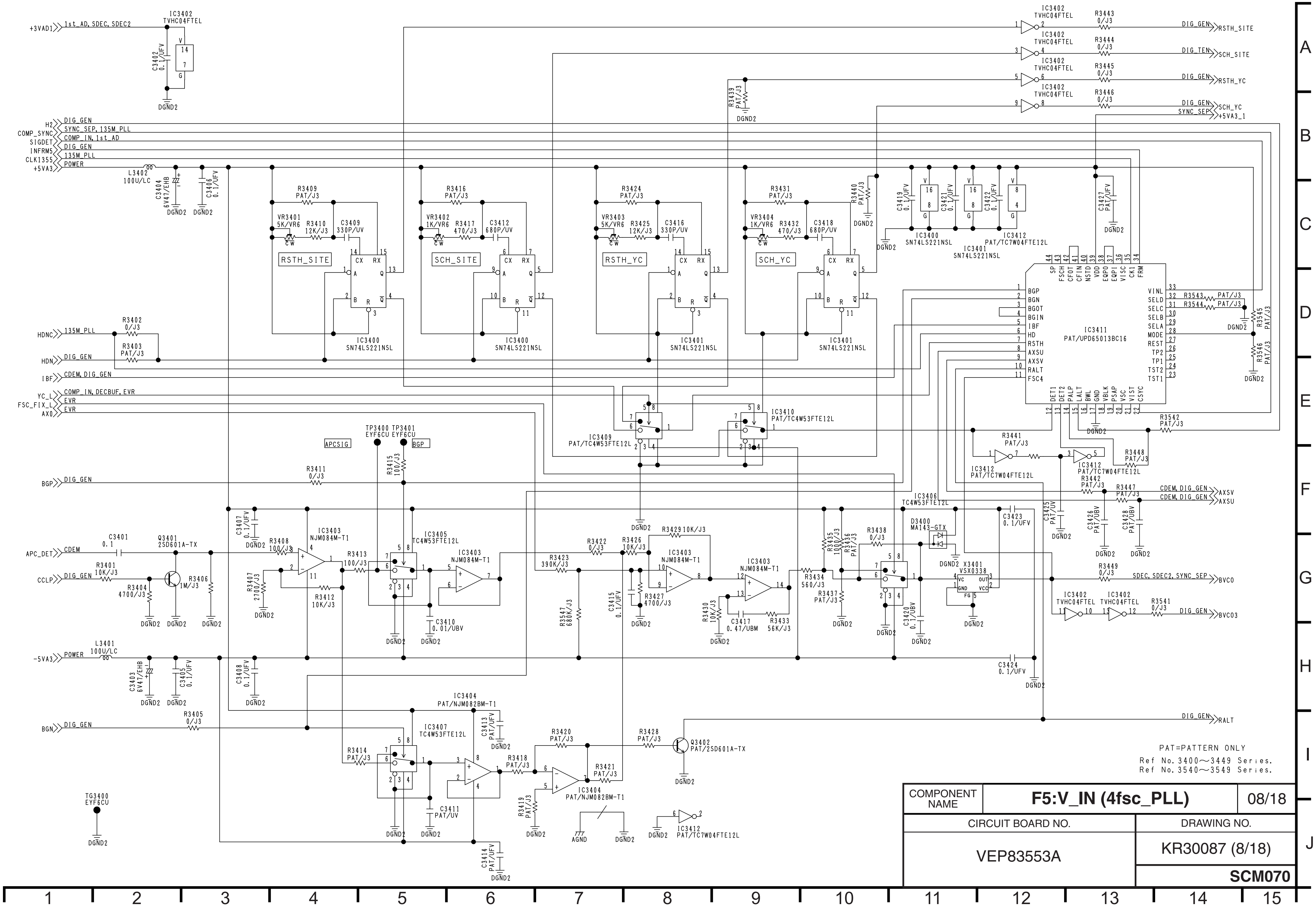
PAT=PATTERN ONLY

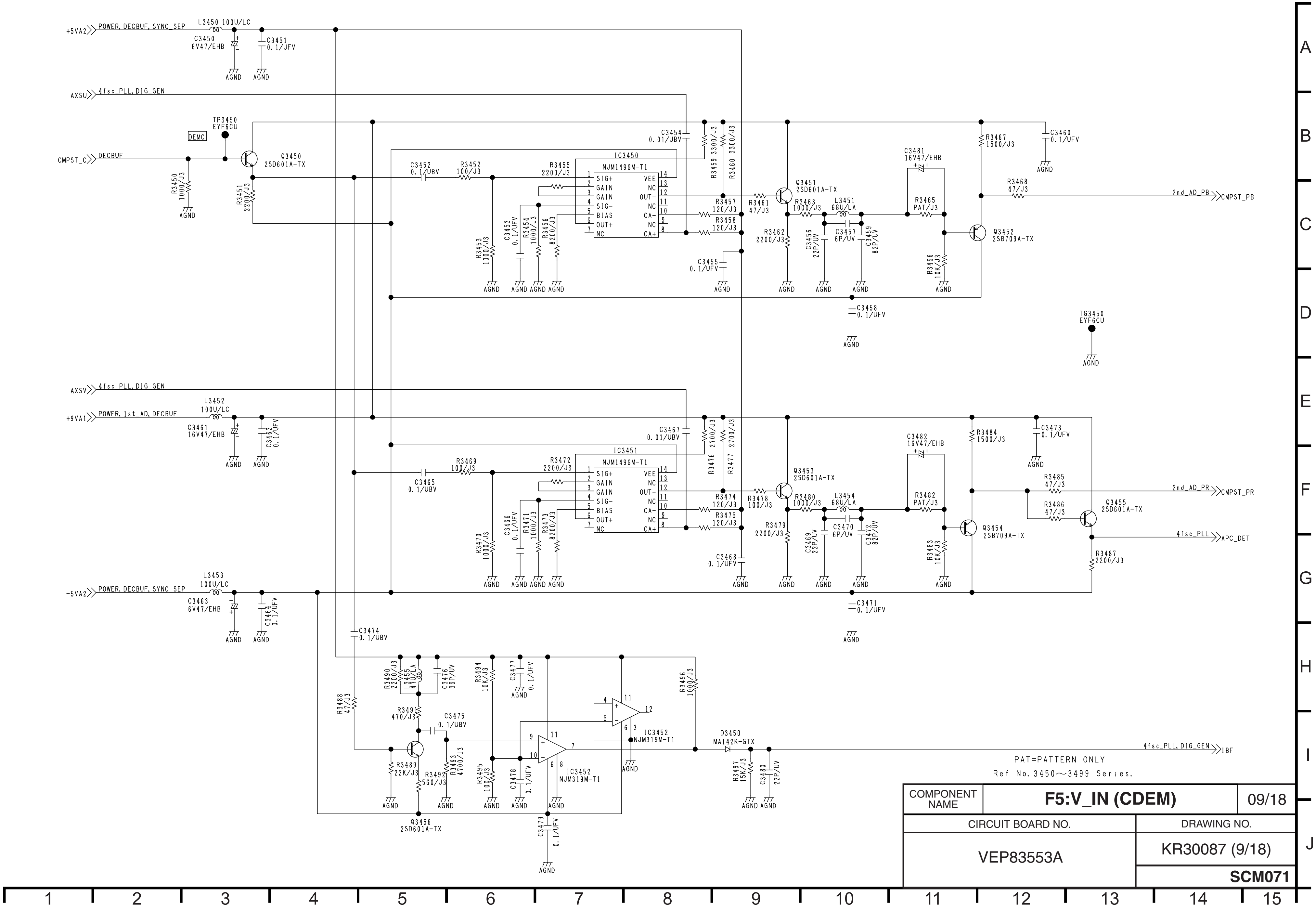
Ref No. 3300～3399 Series.

COMPONENT NAME	F5:V_IN (DECBUF)		07/18
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83553A		KR30087 (7/18)	
		SCM069	


+3VAD1
1st_AD, SDEC, SDEC2
IC3402
TVHC04FTEL
C3402 0.1/UFV
DGND2
H2
COMP_SYNC
SIGDET
INFRM5
CLK1355
+5VA3
DIG_GEN
SYNC_SEP, 135M_PLL
COMP_IN, 1st_AD
135M_PLL
POWER
L3402 100U/LC
C3404 6V47/EHB
C3406 0.1/UFV
R3409 PAT/J3
VR3401 5K/VR6
R3410 12K/J3
C3409 330P/UV
RSTH_SITE
R3416 PAT/J3
VR3402 1K/VR6
R3417 470/J3
C3412 680P/UV
SCH_SITE
R3424 PAT/J3
VR3403 5K/VR6
R3425 12K/J3
C3416 330P/UV
RSTH_YC
R3431 PAT/J3
VR3404 1K/VR6
R3432 470/J3
C3418 680P/UV
SCH_YC
IC3400 SN74LS221NSL
IC3401 SN74LS221NSL
R3439 PAT/J3
R3440 PAT/J3
C3419 0.1/UFV
C3421 0.1/UFV
C3422 0.1/UFV
IC3412 PAT/TC7W04FTE12L
C3427 PAT/UFV
R3443 0/J3
R3444 0/J3
R3445 0/J3
R3446 0/J3
RSTH_SITE
SCH_SITE
RSTH_YC
SCH_YC
DIG_TEN
SYNC_SEP
+5VA3_1
IC3411 PAT/UPD65013BC16
BGP BGN BGOT BGIN IBF HD RSTH AXSU AXSV RALT FSC4
SP FSCH CFOT CFIN NSTD VDD EQPO EQPI VISC CKI FRM
VINL SELD SELC SELB SELA MODE REST TP2 TP1 TST2 TST1
DET1 DET2 PALP LALT BWL GND VBLK PSAP VSC VIST CSYC
R3543 PAT/J3
R3544 PAT/J3
R3545 PAT/J3
R3546 PAT/J3
R3542 PAT/J3
HDNC
HDN
R3402 0/J3
R3403 PAT/J3
IBF
CDEM, DIG_GEN
YC_L
FSC_FIX_L
AXO
COMP_IN, DECBUF, EVR
EVR
IC3409 PAT/TC4W53FTE12L
IC3410 PAT/TC4W53FTE12L
R3441 PAT/J3
R3448 PAT/J3
R3442 PAT/J3
R3447 PAT/J3
AXSV
AXSU
TP3400 TP3401 EYF6CU EYF6CU
APCSIG
BGP
R3415 100/J3
R3411 0/J3
IC3406 TC4W53FTE12L
C3425 PAT/UV
C3426 PAT/UBV
C3428 PAT/UBV
C3423 0.1/UFV
D3400 MA143-GTX
X3401 VSX0338
APC_DET
CCLP
C3401 0.1
Q3401 2SD601A-TX
R3401 10K/J3
R3404 4700/J3
R3406 1M/J3
C3407 0.1/UFV
R3408 100/J3
R3407 2700/J3
IC3403 NJM084M-T1
R3412 10K/J3
R3413 100/J3
IC3405 TC4W53FTE12L
C3410 0.01/UBV
R3422 0/J3
R3423 390K/J3
R3426 10K/J3
R3429 10K/J3
R3427 4700/J3
R3547 680K/J3
C3415 0.1/UFV
R3430 10K/J3
C3417 0.47/UBM
R3433 56K/J3
R3434 560/J3
R3435 100/J3
R3436 PAT/J3
R3437 PAT/J3
R3438 0/J3
C3420 0.1/UBV
R3449 0/J3
SDEC, SDEC2, SYNC_SEP
BVCO
R3541 0/J3
BVCO3
-5VA3
L3401 100U/LC
C3403 6V47/EHB
C3405 0.1/UFV
C3408 0.1/UFV
C3424 0.1/UFV
IC3404 PAT/NJM082BM-T1
C3413 PAT/UFV
BGN
R3405 0/J3
IC3407 TC4W53FTE12L
R3414 PAT/J3
C3411 PAT/UV
R3418 PAT/J3
R3420 PAT/J3
R3421 PAT/J3
R3419 PAT/J3
R3428 PAT/J3
Q3402 PAT/2SD601A-TX
RALT
C3414 PAT/UFV
TG3400 EYF6CU
AGND
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY
Ref No.3400～3449 Series.
Ref No.3540～3549 Series.

COMPONENT NAME	F5:V_IN (4fsc_PLL)	08/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (8/18)	
	SCM070	


+5VA2
POWER, DECBUF, SYNC_SEP
L3450 100U/LC
C3450 6V47/EHB
C3451 0.1/UFV
AGND
AXSU
4fsc_PLL, DIG_GEN
TP3450 EYF6CU
DEMC
CMPST_C
DECBUF
Q3450 2SD601A-TX
R3450 1000/J3
R3451 2200/J3
C3452 0.1/UBV
R3452 100/J3
R3453 1000/J3
C3453 0.1/UFV
R3454 1000/J3
R3455 2200/J3
R3456 8200/J3
C3454 0.01/UBV
IC3450
NJM1496M-T1
SIG+
GAIN
GAIN
SIG-
BIAS
OUT+
NC
VEE
NC
OUT-
NC
CA-
NC
CA+
R3459 3300/J3
R3460 3300/J3
R3457 120/J3
R3458 120/J3
C3455 0.1/UFV
Q3451 2SD601A-TX
R3461 47/J3
R3462 2200/J3
R3463 1000/J3
L3451 68U/LA
C3456 22P/UV
C3457 6P/UV
C3459 82P/UV
C3481 16V47/EHB
R3465 PAT/J3
R3466 10K/J3
Q3452 2SB709A-TX
R3467 1500/J3
C3460 0.1/UFV
R3468 47/J3
2nd_AD_PB
CMPST_PB
C3458 0.1/UFV
TG3450 EYF6CU
AXSV
4fsc_PLL, DIG_GEN
+9VA1
POWER, 1st_AD, DECBUF
L3452 100U/LC
C3461 16V47/EHB
C3462 0.1/UFV
C3467 0.01/UBV
IC3451
NJM1496M-T1
R3476 2700/J3
R3477 2700/J3
C3465 0.1/UBV
R3469 100/J3
R3470 1000/J3
C3466 0.1/UFV
R3471 1000/J3
R3472 2200/J3
R3473 8200/J3
R3474 120/J3
R3475 120/J3
C3468 0.1/UFV
Q3453 2SD601A-TX
R3478 100/J3
R3479 2200/J3
R3480 1000/J3
L3454 68U/LA
C3469 22P/UV
C3470 6P/UV
C3472 82P/UV
C3482 16V47/EHB
R3482 PAT/J3
R3483 10K/J3
Q3454 2SB709A-TX
R3484 1500/J3
C3473 0.1/UFV
R3485 47/J3
R3486 47/J3
Q3455 2SD601A-TX
2nd_AD_PR
CMPST_PR
4fsc_PLL
APC_DET
R3487 2200/J3
-5VA2
POWER, DECBUF, SYNC_SEP
L3453 100U/LC
C3463 6V47/EHB
C3464 0.1/UFV
C3471 0.1/UFV
C3474 0.1/UBV
R3488 47/J3
R3490 2200/J3
L3455 470U/LA
C3476 39P/UV
R3491 470/J3
C3475 0.1/UBV
R3489 22K/J3
R3492 560/J3
R3493 4700/J3
Q3456 2SD601A-TX
R3494 10K/J3
R3495 100/J3
C3477 0.1/UFV
C3478 0.1/UFV
C3479 0.1/UFV
IC3452 NJM319M-T1
IC3452 NJM319M-T1
R3496 1000/J3
D3450 MA142K-GTX
R3497 15K/J3
C3480 22P/UV
4fsc_PLL, DIG_GEN
IBF
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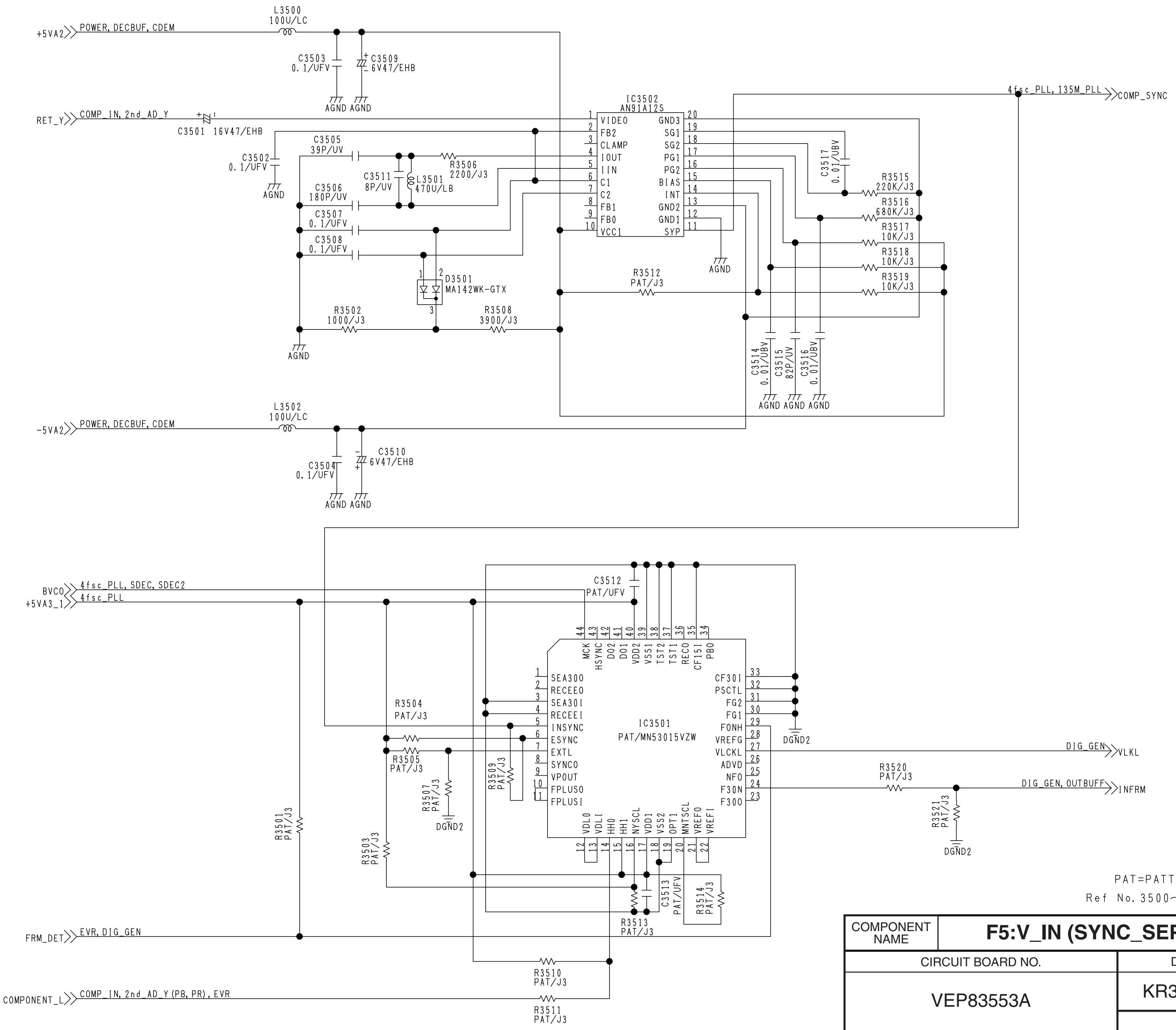
PAT=PATTERN ONLY

Ref No.3450～3499 Series.

COMPONENT NAME	F5:V_IN (CDEM)	09/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (9/18)	
	SCM071	

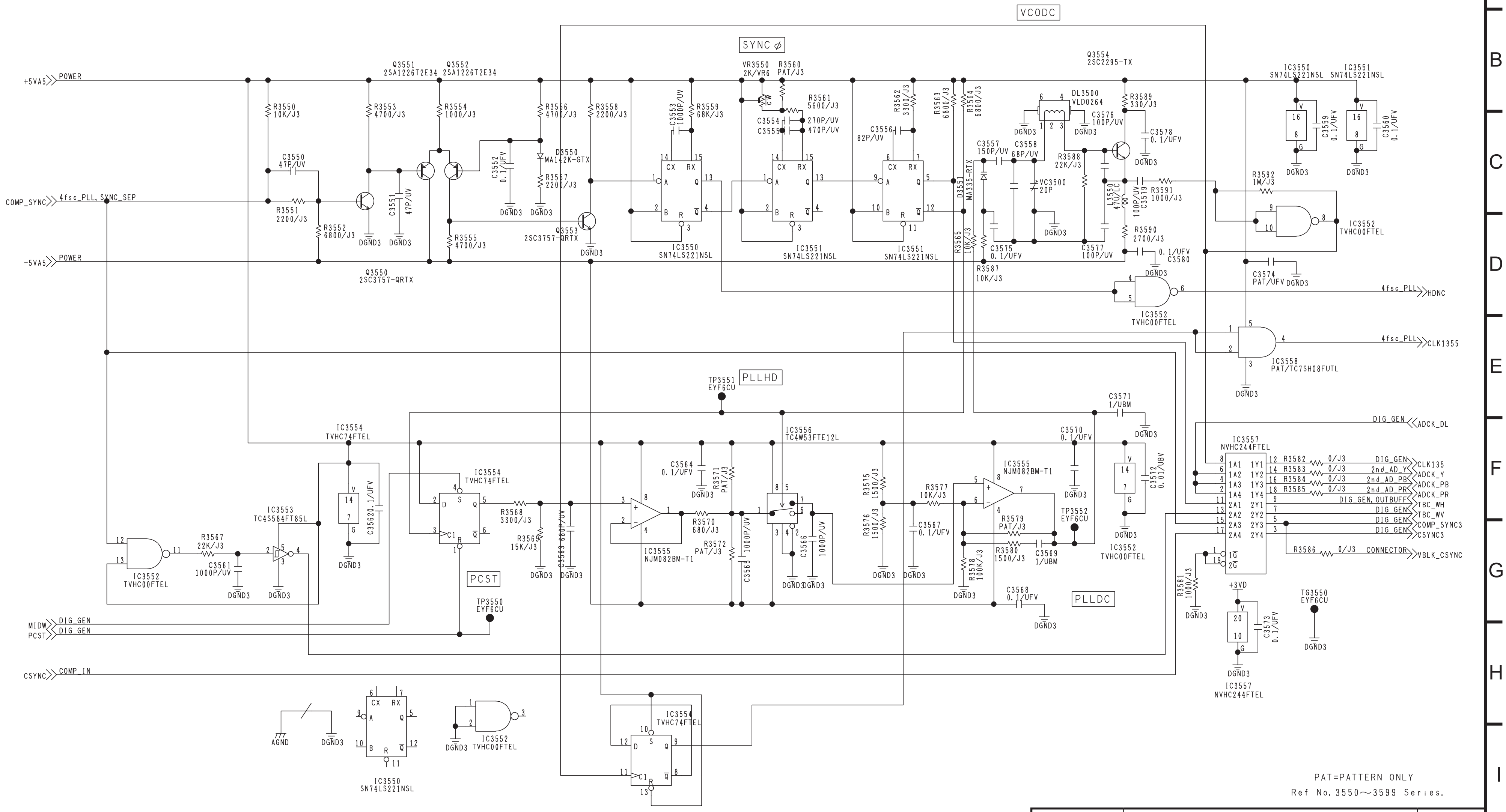


+5VA2
POWER, DECBUF, CDEM
L3500
100U/LC
C3503
0.1/UFV
C3509
6V47/EHB
AGND
AGND
RET_Y
COMP_IN, 2nd_AD_Y
C3501 16V47/EHB
C3502
0.1/UFV
AGND
C3505
39P/UV
C3511
8P/UV
L3501
470U/LB
R3506
2200/J3
C3506
180P/UV
C3507
0.1/UFV
C3508
0.1/UFV
D3501
MA142WK-GTX
R3502
1000/J3
R3508
3900/J3
AGND
IC3502
AN91A12S
VIDEO
FB2
CLAMP
IOUT
IIN
C1
C2
FB1
FB0
VCC1
GND3
SG1
SG2
PG1
PG2
BIAS
INT
GND2
GND1
SYP
AGND
4fsc_PLL, 135M_PLL
COMP_SYNC
C3517
0.01/UBV
R3515
220K/J3
R3516
680K/J3
R3517
10K/J3
R3518
10K/J3
R3519
10K/J3
R3512
PAT/J3
C3514
0.01/UBV
C3515
82P/UV
C3516
0.01/UBV
AGND AGND AGND
-5VA2
POWER, DECBUF, CDEM
L3502
100U/LC
C3504
0.1/UFV
C3510
6V47/EHB
AGND AGND
BVCO
4fsc_PLL, SDEC, SDEC2
+5VA3_1
4fsc_PLL
C3512
PAT/UFV
IC3501
PAT/MN53015VZW
MCK
HSYNC
DO2
DO1
VDD2
VSS1
TST2
TST1
RECO
CF151
PBO
SEA300
RECEEO
SEA30I
RECEEI
INSYNC
ESYNC
EXTL
SYNCO
VPOUT
FPLUSO
FPLUSI
CF30I
PSCTL
FG2
FG1
FONH
VREFG
VLCKL
ADVD
NFO
F30N
F300
VDLO
VDLI
HHO
HH1
NYSCL
VDD1
VSS2
OPT1
MNTSCL
VREFO
VREFI
DGND2
DIG_GEN
VLKL
R3520
PAT/J3
DIG_GEN, OUTBUFF
INFRM
R3521
PAT/J3
DGND2
R3504
PAT/J3
R3505
PAT/J3
R3507
PAT/J3
DGND2
R3509
PAT/J3
R3501
PAT/J3
R3503
PAT/J3
C3513
PAT/UFV
R3513
PAT/J3
R3514
PAT/J3
FRM_DET
EVR, DIG_GEN
R3510
PAT/J3
COMPONENT_L
COMP_IN, 2nd_AD_Y(PB, PR), EVR
R3511
PAT/J3

PAT=PATTERN ONLY

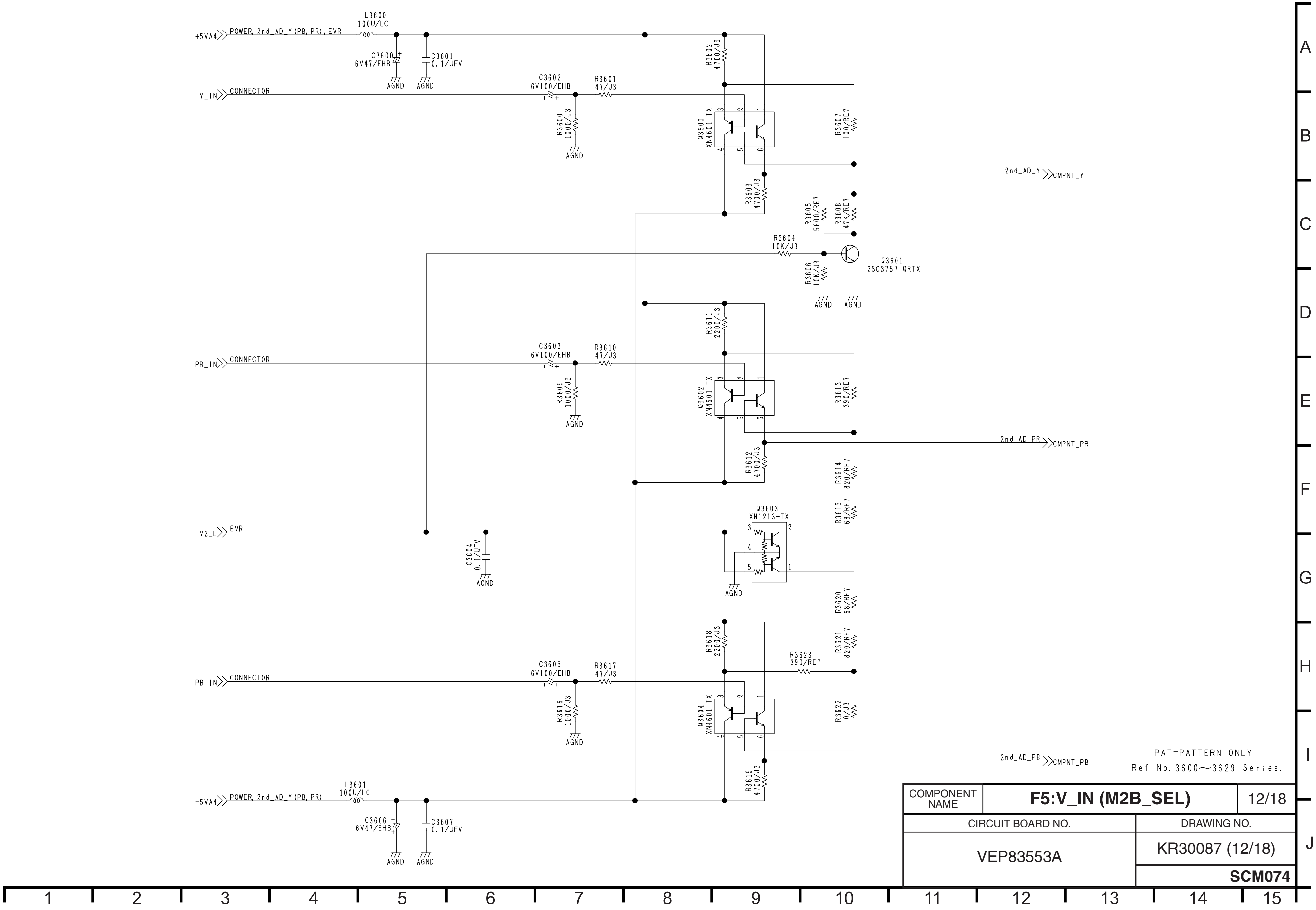
Ref No. 3500～3539 Series.

COMPONENT NAME	F5:V_IN (SYNC_SEP)	10/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (10/18)	
	SCM072	


VCODC
SYNC ϕ
PLLHD
PCST
PLLDC
+5VA5
POWER
COMP_SYNC
4fsc_PLL,SYNC_SEP
-5VA5
MIDW
PCST
DIG_GEN
CSYNC
COMP_IN
Q3551 2SA1226T2E34
Q3552 2SA1226T2E34
Q3550 2SC3757-QRTX
Q3553 2SC3757-QRTX
Q3554 2SC2295-TX
R3550 10K/J3
R3551 2200/J3
R3552 6800/J3
R3553 4700/J3
R3554 1000/J3
R3555 4700/J3
R3556 4700/J3
R3557 2200/J3
R3558 2200/J3
R3559 68K/J3
R3560 PAT/J3
R3561 5600/J3
R3562 3300/J3
R3563 6800/J3
R3564 6800/J3
R3565 10K/J3
R3587 10K/J3
R3588 22K/J3
R3589 330/J3
R3590 2700/J3
R3591 1000/J3
R3592 1M/J3
C3550 47P/UV
C3551 47P/UV
C3552 0.1/UFV
C3553 1000P/UV
C3554 270P/UV
C3555 470P/UV
C3556 82P/UV
C3557 150P/UV
C3558 68P/UV
C3575 0.1/UFV
C3576 100P/UV
C3577 100P/UV
C3578 0.1/UFV
C3579 100P/UV
C3580 0.1/UFV
C3574 PAT/UFV
C3559 0.1/UFV
C3560 0.1/UFV
D3550 MA142K-GTX
D3551 MA335-RTX
DL3500 VLD0264
VC3500 20P
VR3550 2K/VR6
IC3550 SN74LS221NSL
IC3551 SN74LS221NSL
IC3552 TVHC00FTEL
IC3558 PAT/TC7SH08FUTL
4fsc_PLL
HDNC
CLK1355
DGND3
TP3551 EYF6CU
IC3554 TVHC74FTEL
IC3553 TC4S584FT85L
IC3555 NJM082BM-T1
IC3556 TC4W53FTE12L
IC3557 NVHC244FTEL
R3567 22K/J3
R3568 3300/J3
R3569 15K/J3
R3570 680/J3
R3571 PAT/J3
R3572 PAT/J3
R3575 1500/J3
R3576 1500/J3
R3577 10K/J3
R3578 100K/J3
R3579 PAT/J3
R3580 1500/J3
R3581 1000/J3
R3582 0/J3
R3583 0/J3
R3584 0/J3
R3585 0/J3
R3586 0/J3
C3561 1000P/UV
C3562 0.1/UFV
C3563 680P/UV
C3564 0.1/UFV
C3565 1000P/UV
C3566 1000P/UV
C3567 0.1/UFV
C3568 0.1/UFV
C3569 1/UBM
C3570 0.1/UFV
C3571 1/UBM
C3572 0.01/UBV
C3573 0.1/UFV
TP3550 EYF6CU
TP3552 EYF6CU
TG3550 EYF6CU
ADCK_DL
CLK135
ADCK_Y
ADCK_PB
ADCK_PR
TBC_WH
TBC_WV
COMP_SYNC3
CSYNC3
VBLK_CSYNC
2nd_AD_Y
2nd_AD_PB
2nd_AD_PR
DIG_GEN,OUTBUFF
CONNECTOR
+3VD
AGND

PAT=PATTERN ONLY
Ref No.3550～3599 Series.

COMPONENT NAME	F5:V_IN (135M_PLL)	11/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (11/18)	
	SCM073	


+5VA4
POWER, 2nd_AD_Y(PB, PR), EVR
L3600
100U/LC
C3600
6V47/EHB
C3601
0.1/UFV
AGND
AGND
Y_IN
CONNECTOR
C3602
6V100/EHB
R3601
47/J3
R3600
1000/J3
AGND
R3602
4700/J3
Q3600
XN4601-TX
R3607
100/RE7
R3603
4700/J3
2nd_AD_Y
CMPNT_Y
R3605
5600/RE7
R3608
47K/RE7
R3604
10K/J3
Q3601
2SC3757-QRTX
R3606
10K/J3
AGND
AGND
R3611
2200/J3
PR_IN
CONNECTOR
C3603
6V100/EHB
R3610
47/J3
R3609
1000/J3
AGND
Q3602
XN4601-TX
R3613
390/RE7
2nd_AD_PR
CMPNT_PR
R3612
4700/J3
R3614
820/RE7
R3615
68/RE7
Q3603
XN1213-TX
M2_L
EVR
C3604
0.1/UFV
AGND
AGND
R3620
68/RE7
R3618
2200/J3
R3621
820/RE7
R3623
390/RE7
PB_IN
CONNECTOR
C3605
6V100/EHB
R3617
47/J3
R3616
1000/J3
AGND
Q3604
XN4601-TX
R3622
0/J3
2nd_AD_PB
CMPNT_PB
R3619
4700/J3
-5VA4
POWER, 2nd_AD_Y(PB, PR)
L3601
100U/LC
C3606
6V47/EHB
C3607
0.1/UFV
AGND
AGND
A
B
C
D
E
F
G
H
I
J
1
2
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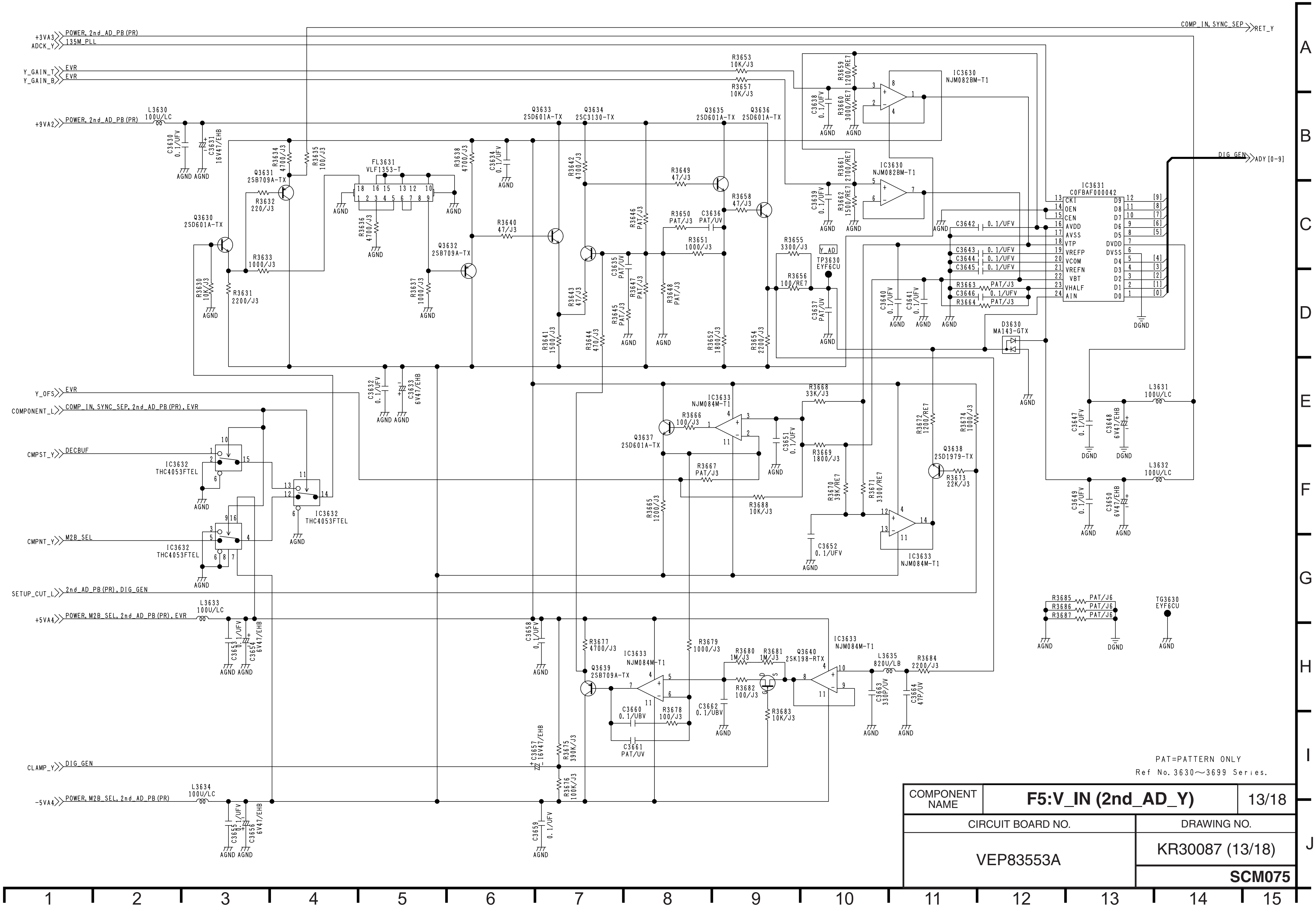
PAT=PATTERN ONLY

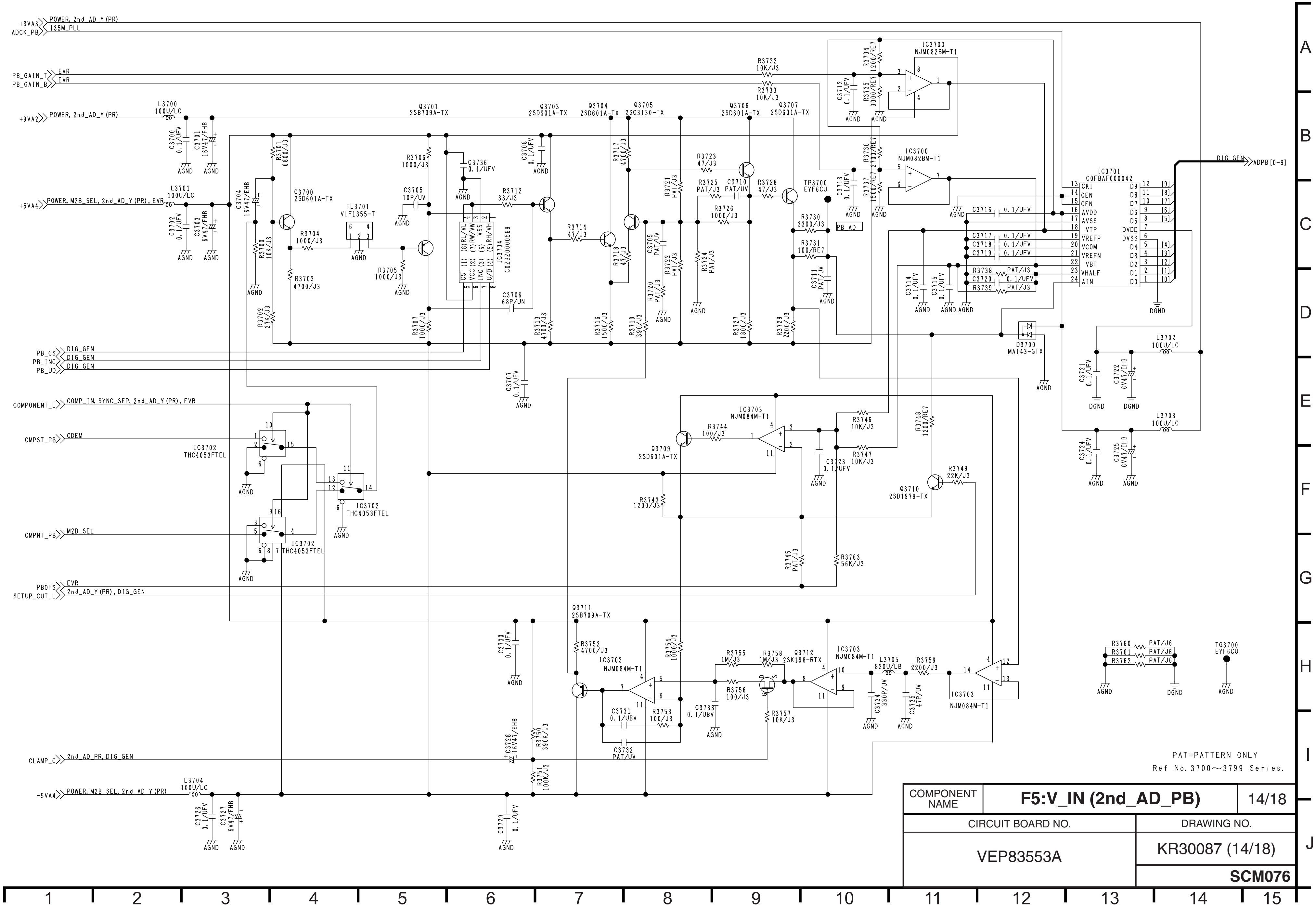
Ref No. 3600～3629 Series.

COMPONENT NAME	F5:V_IN (M2B_SEL)	12/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (12/18)	
	SCM074	


+3VA3
POWER, 2nd_AD_PB(PR)
ADCK_Y
135M_PLL
Y_GAIN_T
Y_GAIN_B
EVR
EVR
+9VA2
POWER, 2nd_AD_PB(PR)
L3630 100U/LC
C3630 0.1/UFV
C3631 16V47/EHB
AGND
Q3631 2SB709A-TX
R3632 220/J3
R3634 4700/J3
R3635 100/J3
Q3630 2SD601A-TX
R3633 1000/J3
R3630 10K/J3
R3631 2200/J3
FL3631 VLF1353-T
R3636 4700/J3
R3637 1000/J3
Q3632 2SB709A-TX
R3638 4700/J3
C3634 0.1/UFV
R3640 47/J3
Q3633 2SD601A-TX
Q3634 2SC3130-TX
R3641 1500/J3
R3642 4700/J3
R3643 47/J3
R3644 470/J3
C3635 PAT/UV
R3645 PAT/J3
R3646 PAT/J3
R3647 PAT/J3
R3648 PAT/J3
R3649 47/J3
R3650 PAT/J3
C3636 PAT/UV
R3651 1000/J3
R3652 1800/J3
Q3635 2SD601A-TX
Q3636 2SD601A-TX
R3658 47/J3
R3654 2200/J3
R3653 10K/J3
R3657 10K/J3
R3655 3300/J3
R3656 100/RE7
Y_AD
TP3630 EYF6CU
C3637 PAT/UV
IC3630 NJM082BM-T1
R3659 1200/RE7
R3660 3000/RE7
C3638 0.1/UFV
R3661 2700/RE7
R3662 1500/RE7
C3639 0.1/UFV
IC3631 C0FBAF000042
CK1 OEN CEN AVDD AVSS VTP VREFP VCOM VREFN VBT VHALF AIN
D9 D8 D7 D6 D5 DVDD DVSS D4 D3 D2 D1 D0
C3642 0.1/UFV
C3643 0.1/UFV
C3644 0.1/UFV
C3645 0.1/UFV
R3663 PAT/J3
C3646 0.1/UFV
R3664 PAT/J3
C3640 0.1/UFV
C3641 0.1/UFV
DGND
D3630 MA143-GTX
DIG_GEN
ADY[0-9]
COMP_IN, SYNC_SEP
RET_Y
C3632 0.1/UFV
C3633 6V47/EHB
Y_OFS
COMPONENT_L
COMP_IN, SYNC_SEP, 2nd_AD_PB(PR), EVR
CMPST_Y
DECBUF
IC3632 THC4053FTEL
CMPNT_Y
M2B_SEL
IC3633 NJM084M-T1
R3666 100/J3
Q3637 2SD601A-TX
R3668 33K/J3
C3651 0.1/UFV
R3669 1800/J3
R3667 PAT/J3
R3688 10K/J3
R3665 1200/J3
R3670 39K/RE7
R3671 3300/RE7
R3672 1200/RE7
R3674 1000/J3
Q3638 2SD1979-TX
R3673 22K/J3
C3652 0.1/UFV
L3631 100U/LC
L3632 100U/LC
C3647 0.1/UFV
C3648 6V47/EHB
C3649 0.1/UFV
C3650 6V47/EHB
SETUP_CUT_L
2nd_AD_PB(PR), DIG_GEN
+5VA4
POWER, M2B_SEL, 2nd_AD_PB(PR), EVR
L3633 100U/LC
C3653 0.1/UFV
C3654 6V47/EHB
C3658 0.1/UFV
R3677 4700/J3
Q3639 2SB709A-TX
C3660 0.1/UBV
R3678 100/J3
C3661 PAT/UV
R3679 1000/J3
C3662 0.1/UBV
R3680 1M/J3
R3681 1M/J3
Q3640 2SK198-RTX
R3682 100/J3
R3683 10K/J3
L3635 820U/LB
R3684 2200/J3
C3663 330P/UV
C3664 47P/UV
C3657 16V47/EHB
R3675 390K/J3
R3676 100K/J3
CLAMP_Y
DIG_GEN
-5VA4
POWER, M2B_SEL, 2nd_AD_PB(PR)
L3634 100U/LC
C3655 0.1/UFV
C3656 6V47/EHB
C3659 0.1/UFV
R3685 PAT/J6
R3686 PAT/J6
R3687 PAT/J6
TG3630 EYF6CU
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY
Ref No. 3630～3699 Series.

COMPONENT NAME	**F5:V_IN (2nd_AD_Y)**	13/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (13/18)	
	SCM075	

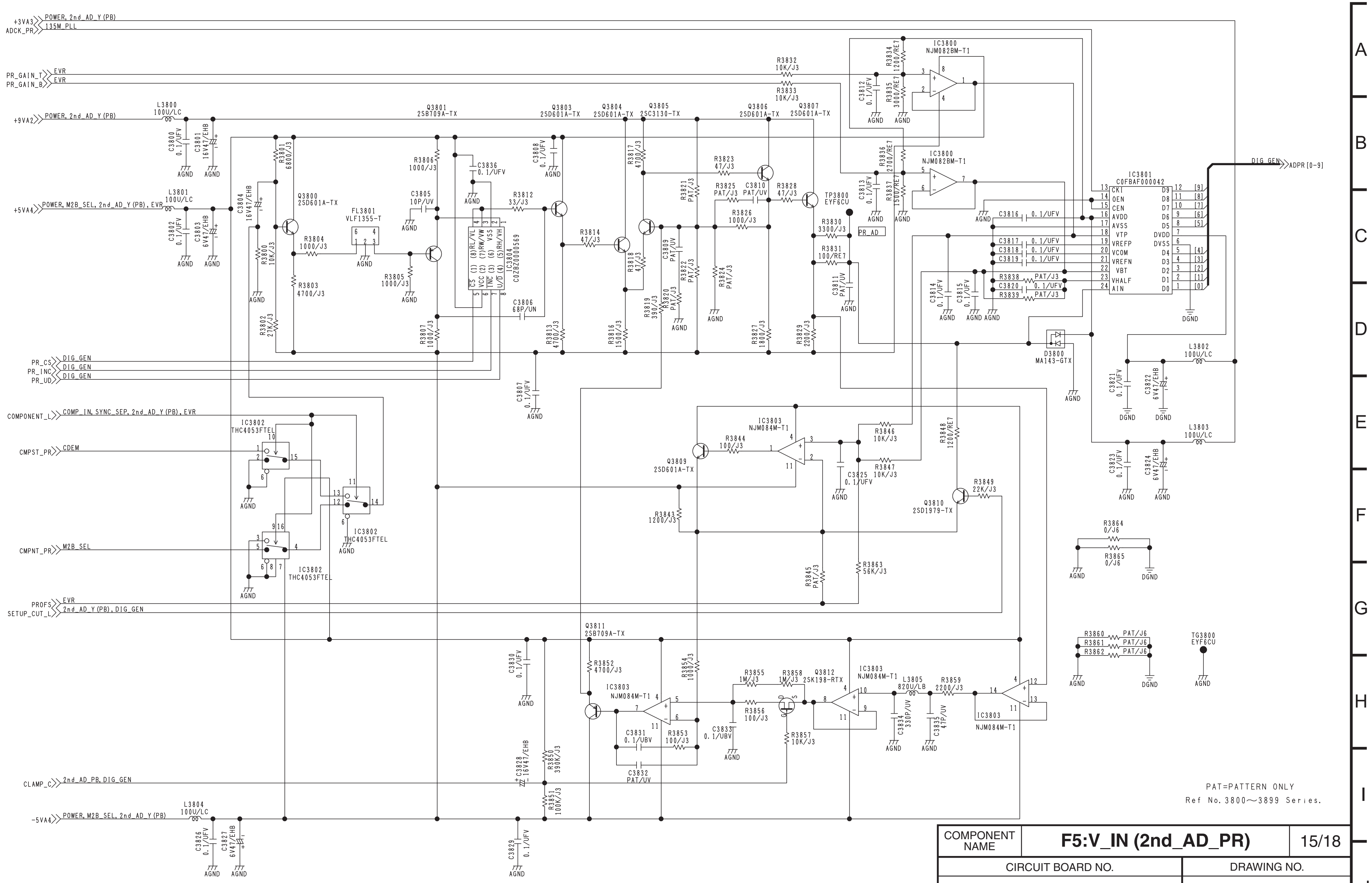


+3VA3 POWER, 2nd_AD_Y (PR)
ADCK_PB 135M_PLL
PB_GAIN_T EVR
PB_GAIN_B EVR
+9VA2 POWER, 2nd_AD_Y (PR)
+5VA4 POWER, M2B_SEL, 2nd_AD_Y (PR), EVR
PB_CS DIG_GEN
PB_INC DIG_GEN
PB_UD DIG_GEN
COMPONENT_L COMP_IN, SYNC_SEP, 2nd_AD_Y (PR), EVR
CMPST_PB CDEM
CMPNT_PB M2B_SEL
PBOFS EVR
SETUP_CUT_L 2nd_AD_Y (PR), DIG_GEN
CLAMP_C 2nd_AD_PR, DIG_GEN
-5VA4 POWER, M2B_SEL, 2nd_AD_Y (PR)
DIG_GEN ADPB [0-9]
L3700 100U/LC
L3701 100U/LC
L3702 100U/LC
L3703 100U/LC
L3704 100U/LC
L3705 820U/LB
Q3700 2SD601A-TX
Q3701 2SB709A-TX
Q3703 2SD601A-TX
Q3704 2SD601A-TX
Q3705 2SC3130-TX
Q3706 2SD601A-TX
Q3707 2SD601A-TX
Q3709 2SD601A-TX
Q3710 2SD1979-TX
Q3711 2SB709A-TX
Q3712 2SK198-RTX
FL3701 VLF1355-T
IC3700 NJM082BM-T1
IC3701 C0FBAF000042
IC3702 THC4053FTEL
IC3703 NJM084M-T1
IC3704 C0ZBZ0000569
D3700 MA143-GTX
TP3700 EYF6CU
TG3700 EYF6CU
PB_AD
CKI OEN CEN AVDD AVSS VTP VREFP VCOM VREFN VBT VHALF AIN
D9 D8 D7 D6 D5 DVDD DVSS D4 D3 D2 D1 D0
CS VCC INC U/D RL/VL RW/VW VSS RH/VH
R3700 10K/J3
R3701 6800/J3
R3702 27K/J3
R3703 4700/J3
R3704 1000/J3
R3705 1000/J3
R3706 1000/J3
R3707 1000/J3
R3712 33/J3
R3713 4700/J3
R3714 47/J3
R3716 1500/J3
R3717 4700/J3
R3718 47/J3
R3719 390/J3
R3720 PAT/J3
R3721 PAT/J3
R3722 PAT/J3
R3723 47/J3
R3724 PAT/J3
R3725 PAT/J3
R3726 1000/J3
R3727 1800/J3
R3728 47/J3
R3729 2200/J3
R3730 3300/J3
R3731 100/RE7
R3732 10K/J3
R3733 10K/J3
R3734 1200/RE7
R3735 3000/RE7
R3736 2700/RE7
R3737 1500/RE7
R3738 PAT/J3
R3739 PAT/J3
R3743 1200/J3
R3744 100/J3
R3745 PAT/J3
R3746 10K/J3
R3747 10K/J3
R3748 1200/RE7
R3749 22K/J3
R3750 390K/J3
R3751 100K/J3
R3752 4700/J3
R3753 100/J3
R3754 1000/J3
R3755 1M/J3
R3756 100/J3
R3757 10K/J3
R3758 1M/J3
R3759 2200/J3
R3760 PAT/J6
R3761 PAT/J6
R3762 PAT/J6
R3763 56K/J3
C3700 0.1/UFV
C3701 16V47/EHB
C3702 0.1/UFV
C3703 6V47/EHB
C3704 16V47/EHB
C3705 10P/UV
C3706 68P/UN
C3707 0.1/UFV
C3708 0.1/UFV
C3709 PAT/UV
C3710 PAT/UV
C3711 PAT/UV
C3712 0.1/UFV
C3713 0.1/UFV
C3714 0.1/UFV
C3715 0.1/UFV
C3716 0.1/UFV
C3717 0.1/UFV
C3718 0.1/UFV
C3719 0.1/UFV
C3720 0.1/UFV
C3721 0.1/UFV
C3722 6V47/EHB
C3723 0.1/UFV
C3724 0.1/UFV
C3725 6V47/EHB
C3726 0.1/UFV
C3727 6V47/EHB
C3728 16V47/EHB
C3729 0.1/UFV
C3730 0.1/UFV
C3731 0.1/UBV
C3732 PAT/UV
C3733 0.1/UBV
C3734 330P/UV
C3735 47P/UV
C3736 0.1/UFV
AGND
DGND
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY

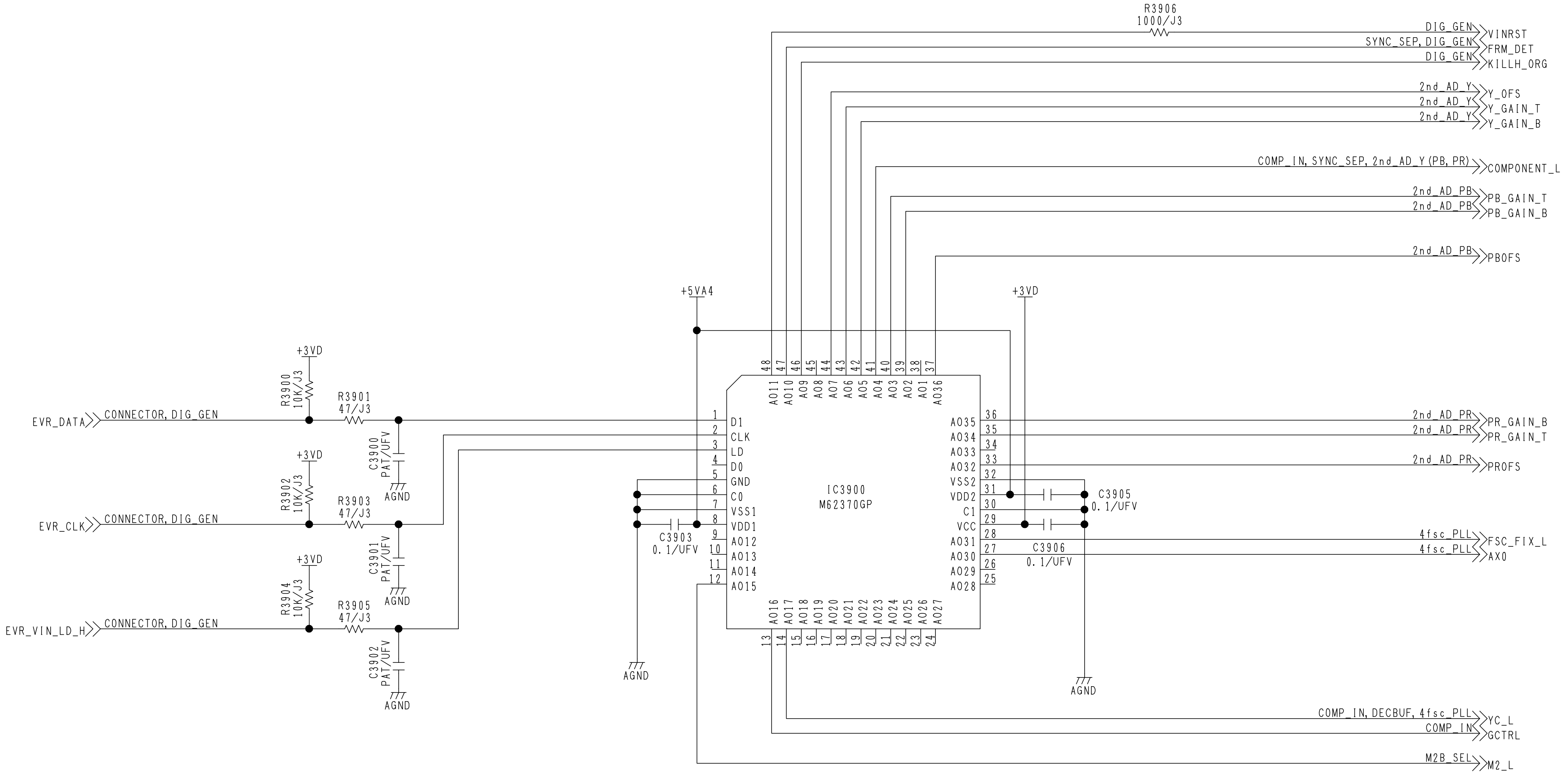
Ref No. 3700～3799 Series.

COMPONENT NAME	F5:V_IN (2nd_AD_PB)	14/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (14/18)	
	SCM076	


+3VA3 POWER, 2nd_AD_Y(PB)
ADCK_PR 135M_PLL
PR_GAIN_T EVR
PR_GAIN_B EVR
+9VA2 POWER, 2nd_AD_Y(PB)
+5VA4 POWER, M2B_SEL, 2nd_AD_Y(PB), EVR
PR_CS DIG_GEN
PR_INC DIG_GEN
PR_UD DIG_GEN
COMPONENT_L COMP_IN, SYNC_SEP, 2nd_AD_Y(PB), EVR
CMPST_PR CDEM
CMPNT_PR M2B_SEL
PROFS EVR
SETUP_CUT_L 2nd_AD_Y(PB), DIG_GEN
CLAMP_C 2nd_AD_PB, DIG_GEN
-5VA4 POWER, M2B_SEL, 2nd_AD_Y(PB)
DIG_GEN ADPR[0-9]
L3800 100U/LC
L3801 100U/LC
L3802 100U/LC
L3803 100U/LC
L3804 100U/LC
L3805 820U/LB
C3800 0.1/UFV
C3801 16V47/EHB
C3802 0.1/UFV
C3803 6V47/EHB
C3804 16V47/EHB
C3805 10P/UV
C3806 68P/UN
C3807 0.1/UFV
C3808 0.1/UFV
C3809 PAT/UV
C3810 PAT/UV
C3811 PAT/UV
C3812 0.1/UFV
C3813 0.1/UFV
C3814 0.1/UFV
C3815 0.1/UFV
C3816 0.1/UFV
C3817 0.1/UFV
C3818 0.1/UFV
C3819 0.1/UFV
C3820 0.1/UFV
C3821 0.1/UFV
C3822 6V47/EHB
C3823 0.1/UFV
C3824 6V47/EHB
C3825 0.1/UFV
C3826 0.1/UFV
C3827 6V47/EHB
C3828 16V47/EHB
C3829 0.1/UFV
C3830 0.1/UFV
C3831 0.1/UBV
C3832 PAT/UV
C3833 0.1/UBV
C3834 330P/UV
C3835 47P/UV
C3836 0.1/UFV
R3800 10K/J3
R3801 6800/J3
R3802 27K/J3
R3803 4700/J3
R3804 1000/J3
R3805 1000/J3
R3806 1000/J3
R3807 1000/J3
R3812 33/J3
R3813 4700/J3
R3814 47/J3
R3816 1500/J3
R3817 4700/J3
R3818 47/J3
R3819 390/J3
R3820 PAT/J3
R3821 PAT/J3
R3822 PAT/J3
R3823 47/J3
R3824 PAT/J3
R3825 PAT/J3
R3826 1000/J3
R3827 1800/J3
R3828 47/J3
R3829 2200/J3
R3830 3300/J3
R3831 100/RE7
R3832 10K/J3
R3833 10K/J3
R3834 1200/RE7
R3835 3000/RE7
R3836 2700/RE7
R3837 1500/RE7
R3838 PAT/J3
R3839 PAT/J3
R3843 1200/J3
R3844 100/J3
R3845 PAT/J3
R3846 10K/J3
R3847 10K/J3
R3848 1200/RE7
R3849 22K/J3
R3850 390K/J3
R3851 100K/J3
R3852 4700/J3
R3853 100/J3
R3854 1000/J3
R3855 1M/J3
R3856 100/J3
R3857 10K/J3
R3858 1M/J3
R3859 2200/J3
R3860 PAT/J6
R3861 PAT/J6
R3862 PAT/J6
R3863 56K/J3
R3864 0/J6
R3865 0/J6
Q3800 2SD601A-TX
Q3801 2SB709A-TX
Q3803 2SD601A-TX
Q3804 2SD601A-TX
Q3805 2SC3130-TX
Q3806 2SD601A-TX
Q3807 2SD601A-TX
Q3809 2SD601A-TX
Q3810 2SD1979-TX
Q3811 2SB709A-TX
Q3812 2SK198-RTX
FL3801 VLF1355-T
IC3800 NJM082BM-T1
IC3801 C0FBAF000042
IC3802 THC4053FTEL
IC3803 NJM084M-T1
IC3804 C0ZBZ0000569
CS (1) (8)RL/VL
VCC (2) (7)RW/VW
INC (3) (6) VSS
U/D (4) (5)RH/VH
CKI OEN CEN AVDD AVSS VTP VREFP VCOM VREFN VBT VHALF AIN
D9 D8 D7 D6 D5 DVDD DVSS D4 D3 D2 D1 D0
D3800 MA143-GTX
TP3800 EYF6CU
PR_AD
TG3800 EYF6CU
AGND
DGND
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY
Ref No.3800～3899 Series.

COMPONENT NAME	F5:V_IN (2nd_AD_PR)	15/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (15/18)	
	SCM077	


R3906
1000/J3
DIG_GEN
VINRST
SYNC_SEP, DIG_GEN
FRM_DET
DIG_GEN
KILLH_ORG
2nd_AD_Y
Y_OFS
2nd_AD_Y
Y_GAIN_T
2nd_AD_Y
Y_GAIN_B
COMP_IN, SYNC_SEP, 2nd_AD_Y (PB, PR)
COMPONENT_L
2nd_AD_PB
PB_GAIN_T
2nd_AD_PB
PB_GAIN_B
2nd_AD_PB
PBOFS
+5VA4
+3VD
+3VD
R3900
10K/J3
R3901
47/J3
EVR_DATA
CONNECTOR, DIG_GEN
C3900
PAT/UFV
AGND
+3VD
R3902
10K/J3
R3903
47/J3
EVR_CLK
CONNECTOR, DIG_GEN
C3901
PAT/UFV
AGND
+3VD
R3904
10K/J3
R3905
47/J3
EVR_VIN_LD_H
CONNECTOR, DIG_GEN
C3902
PAT/UFV
AGND
IC3900
M62370GP
1 D1
2 CLK
3 LD
4 D0
5 GND
6 C0
7 VSS1
8 VDD1
9 AO12
10 AO13
11 AO14
12 AO15
13 AO16
14 AO17
15 AO18
16 AO19
17 AO20
18 AO21
19 AO22
20 AO23
21 AO24
22 AO25
23 AO26
24 AO27
25 AO28
26 AO29
27 AO30
28 AO31
29 VCC
30 C1
31 VDD2
32 VSS2
33 AO32
34 AO33
35 AO34
36 AO35
37 AO36
38 AO1
39 AO2
40 AO3
41 AO4
42 AO5
43 AO6
44 AO7
45 AO8
46 AO9
47 AO10
48 AO11
C3903
0.1/UFV
AGND
C3905
0.1/UFV
C3906
0.1/UFV
AGND
2nd_AD_PR
PR_GAIN_B
2nd_AD_PR
PR_GAIN_T
2nd_AD_PR
PROFS
4fsc_PLL
FSC_FIX_L
4fsc_PLL
AX0
COMP_IN, DECBUF, 4fsc_PLL
YC_L
COMP_IN
GCTRL
M2B_SEL
M2_L
A
B
C
D
E
F
G
H
I
J
1
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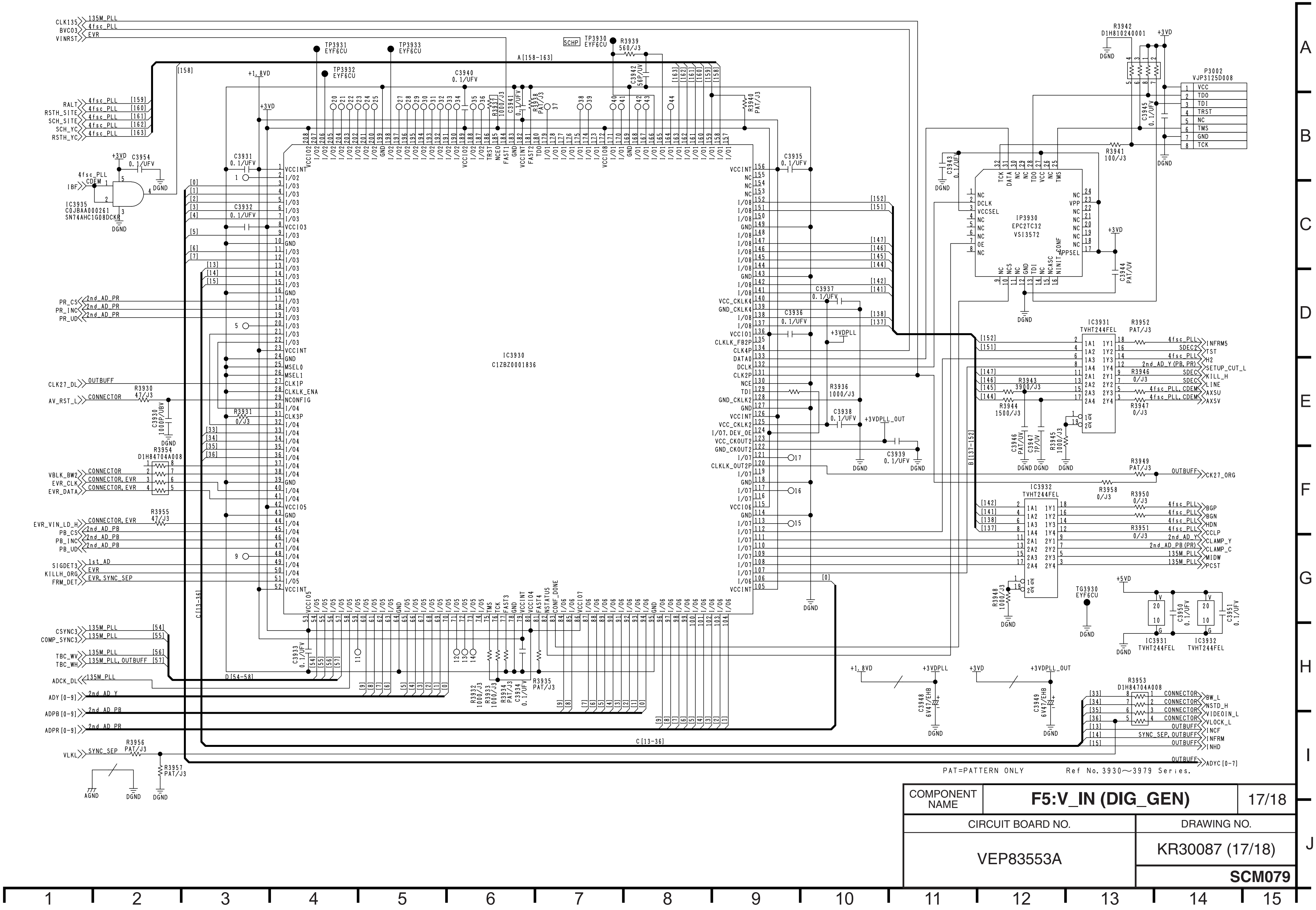
PAT=PATTERN ONLY

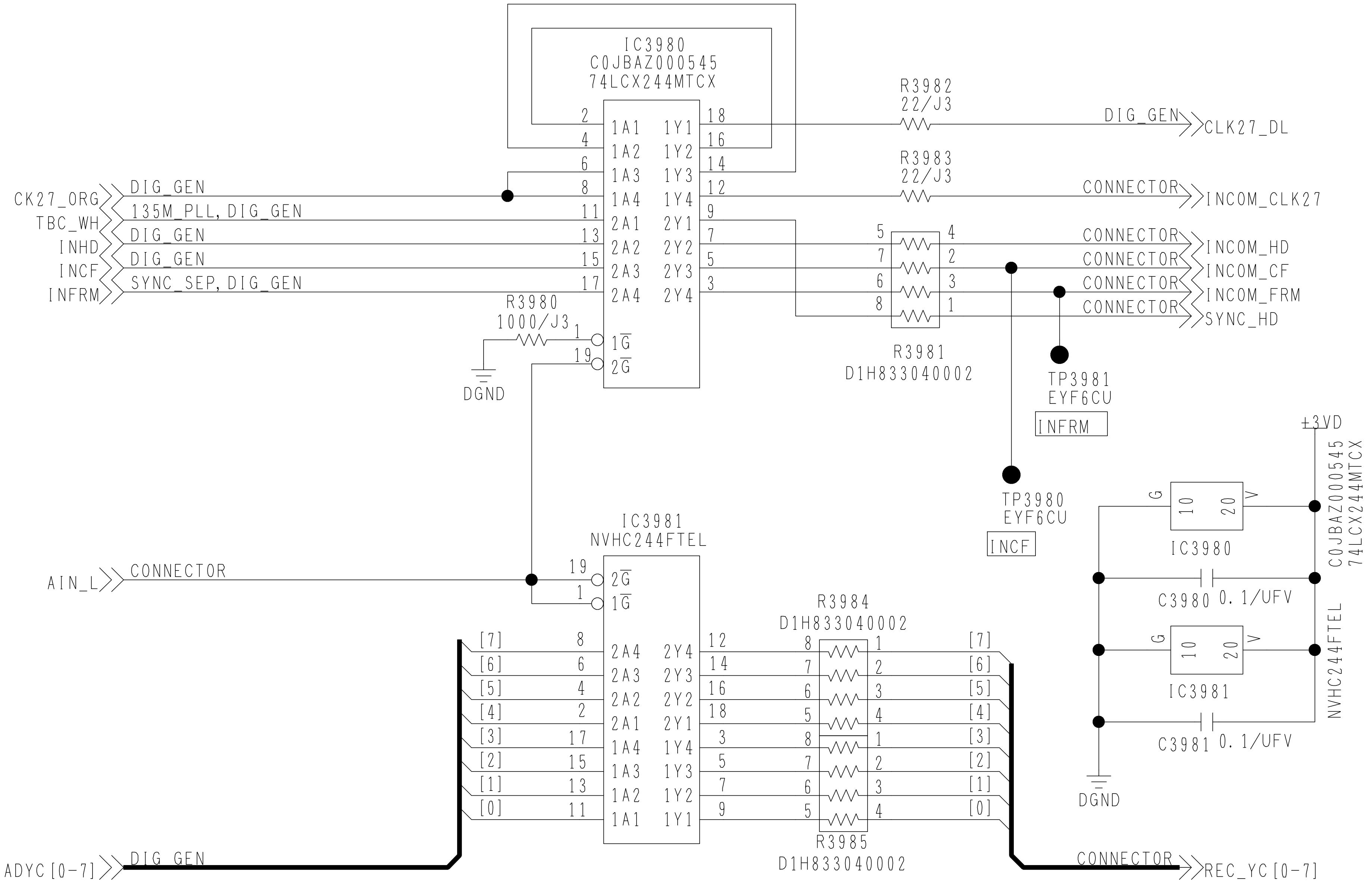
Ref No. 3900～3929 Series.

COMPONENT NAME	F5:V_IN (EVR)	16/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (16/18)	
	SCM078	


CLK135
BVCO3
VINRST
135M_PLL
4fsc_PLL
EVR
TP3931 EYF6CU
TP3932 EYF6CU
TP3933 EYF6CU
SCHP
TP3930 EYF6CU
R3939 560/J3
C3942 56P/UV
A[158-163]
+1.8VD
+3VD
C3940 0.1/UFV
C3941 0.1/UFV
R3937 1000/J3
R3938 PAT/J3
R3940 PAT/J3
RALT
RSTH_SITE
SCH_SITE
SCH_YC
RSTH_YC
C3954 0.1/UFV
4fsc_PLL
CDEM
IBF
IC3935 C0JBAA000261 SN74AHC1G08DCKR
DGND
C3931 0.1/UFV
C3932 0.1/UFV
C3933 0.1/UFV
C3935 0.1/UFV
C3936 0.1/UFV
C3937 0.1/UFV
C3938 0.1/UFV
C3939 0.1/UFV
+3VDPLL
+3VDPLL_OUT
R3936 1000/J3
IC3930 C1ZBZ0001836
PR_CS
PR_INC
PR_UD
2nd_AD_PR
CLK27_DL
OUTBUFF
R3930 47/J3
AV_RST_L
CONNECTOR
C3930 1000P/UBV
R3931 0/J3
R3954 D1H84704A008
VBLK_BW2
EVR_CLK
EVR_DATA
CONNECTOR, EVR
R3955 47/J3
EVR_VIN_LD_H
PB_CS
PB_INC
PB_UD
2nd_AD_PB
SIGDET3
KILLH_ORG
FRM_DET
1st_AD
EVR, SYNC_SEP
CSYNC3
COMP_SYNC3
TBC_WV
TBC_WH
135M_PLL, OUTBUFF
ADCK_DL
ADY[0-9]
ADPB[0-9]
ADPR[0-9]
2nd_AD_Y
D[54-58]
C[13-36]
R3932 1000/J3
R3933 1000/J3
R3934 PAT/J3
C3934 0.1/UFV
R3935 PAT/J3
VLKL
SYNC_SEP
R3956 PAT/J3
R3957 PAT/J3
AGND
R3942 D1H810240001
P3002 VJP3125D008
VCC
TDO
TDI
TRST
NC
TMS
GND
TCK
C3945 0.1/UFV
C3943 0.1/UFV
R3941 100/J3
IP3930 EPC2TC32 VSI3572
C3944 PAT/UV
IC3931 TVHT244FEL
R3952 PAT/J3
INFRM5
TST
H2
SETUP_CUT_L
KILL_H
LINE
AXSU
AXSV
SDEC2
SDEC
R3943 3900/J3
R3944 1500/J3
R3946 0/J3
R3947 0/J3
C3946 PAT/UV
C3947 7P/UV
R3945 1000/J3
B[137-152]
R3949 PAT/J3
CK27_ORG
R3958 0/J3
IC3932 TVHT244FEL
R3950 0/J3
R3951 0/J3
BGP
BGN
HDN
CCLP
CLAMP_Y
CLAMP_C
MIDW
PCST
R3948 1000/J3
TG3930 EYF6CU
+5VD
C3950 0.1/UFV
C3951 0.1/UFV
C3948 6V47/EHB
C3949 6V47/EHB
+3VDPLL_OUT
R3953 D1H84704A008
BW_L
NSTD_H
VIDEOIN_L
VLOCK_L
INCF
INFRM
INHD
SYNC_SEP, OUTBUFF
ADYC[0-7]
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY　　Ref No. 3930～3979 Series.

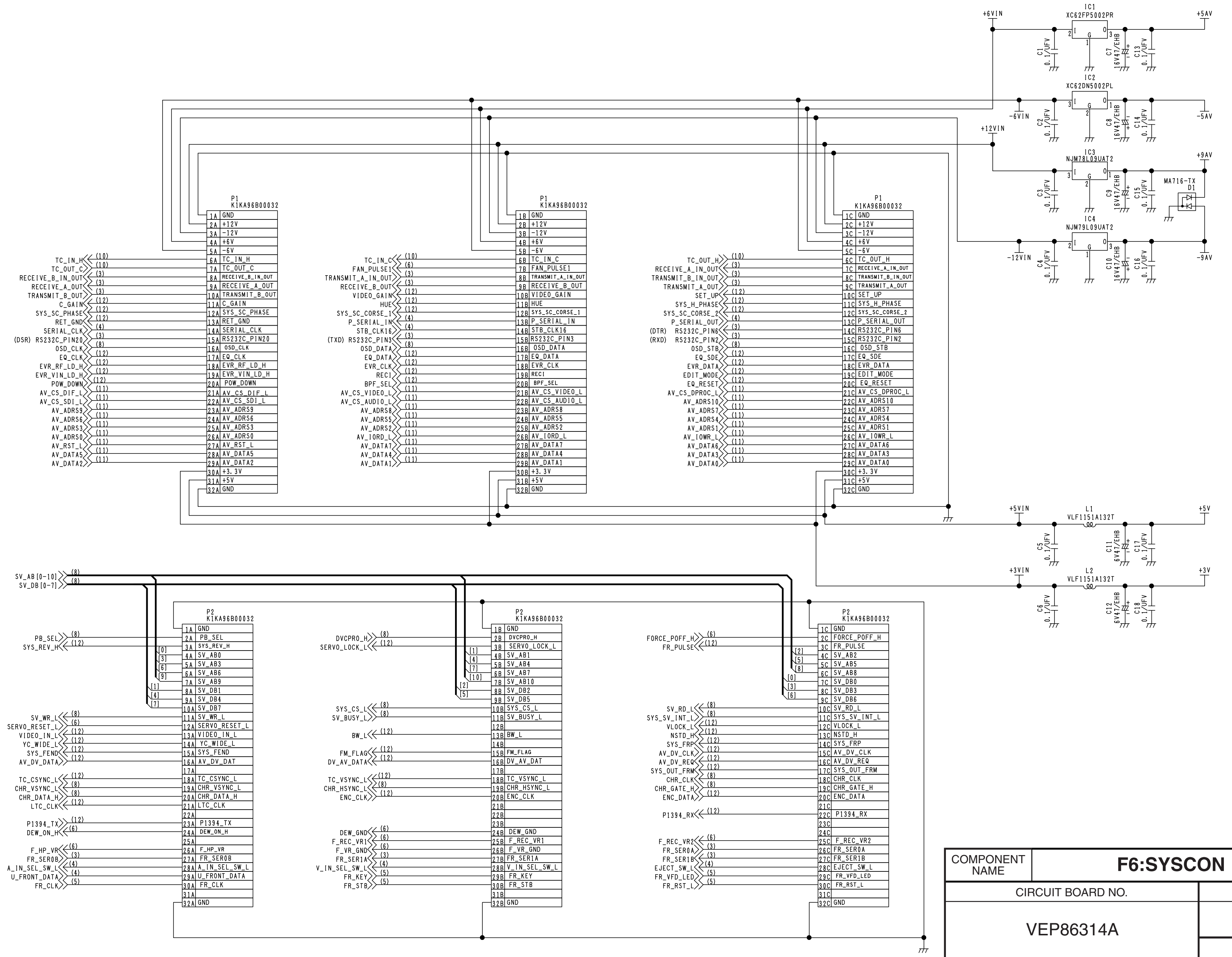
COMPONENT NAME	F5:V_IN (DIG_GEN)	17/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (17/18)	
	SCM079	


IC3980
C0JBAZ000545
74LCX244MTCX
R3982
22/J3
DIG_GEN
CLK27_DL
R3983
22/J3
CONNECTOR
INCOM_CLK27
CK27_ORG
DIG_GEN
TBC_WH
135M_PLL, DIG_GEN
INHD
DIG_GEN
INCF
DIG_GEN
INFRM
SYNC_SEP, DIG_GEN
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G 2G
INCOM_HD
INCOM_CF
INCOM_FRM
SYNC_HD
R3980
1000/J3
DGND
R3981
D1H833040002
TP3981
EYF6CU
INFRM
TP3980
EYF6CU
INCF
+3VD
C0JBAZ000545
74LCX244MTCX
IC3980
C3980 0.1/UFV
NVHC244FTEL
IC3981
C3981 0.1/UFV
DGND
IC3981
NVHC244FTEL
AIN_L
CONNECTOR
R3984
D1H833040002
R3985
D1H833040002
ADYC[0-7]
DIG_GEN
CONNECTOR
REC_YC[0-7]

PAT=PATTERN ONLY

Ref No.3980～3999 Series.

COMPONENT NAME	F5:V_IN (OUTBUFF)	18/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (18/18)	
	SCM080	


IC1
XC62FP5002PR
+6VIN
+5AV
C1 0.1/UFV
C7 16V47/EHB
C13 0.1/UFV
IC2
XC62DN5002PL
-6VIN
-5AV
C2 0.1/UFV
C8 16V47/EHB
C14 0.1/UFV
+12VIN
IC3
NJM78L09UAT2
+9AV
C3 0.1/UFV
C9 16V47/EHB
C15 0.1/UFV
MA716-TX
D1
IC4
NJM79L09UAT2
-12VIN
-9AV
C4 0.1/UFV
C10 16V47/EHB
C16 0.1/UFV
+5VIN
L1
VLF1151A132T
+5V
C5 0.1/UFV
C11 6V47/EHB
C17 0.1/UFV
+3VIN
L2
VLF1151A132T
+3V
C6 0.1/UFV
C12 6V47/EHB
C18 0.1/UFV
P1
K1KA96B00032
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A TC_IN_H
7A TC_OUT_C
8A RECEIVE_B_IN_OUT
9A RECEIVE_A_OUT
10A TRANSMIT_B_OUT
11A C_GAIN
12A SYS_SC_PHASE
13A RET_GND
14A SERIAL_CLK
15A RS232C_PIN20
16A OSD_CLK
17A EQ_CLK
18A EVR_RF_LD_H
19A EVR_VIN_LD_H
20A POW_DOWN
21A AV_CS_DIF_L
22A AV_CS_SDI_L
23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
26A AV_ADRS0
27A AV_RST_L
28A AV_DATA5
29A AV_DATA2
30A +3.3V
31A +5V
32A GND
TC_IN_H (10)
TC_OUT_C (10)
RECEIVE_B_IN_OUT (3)
RECEIVE_A_OUT (3)
TRANSMIT_B_OUT (3)
C_GAIN (12)
SYS_SC_PHASE (12)
RET_GND (12)
SERIAL_CLK (4)
(DSR) RS232C_PIN20 (3)
OSD_CLK (8)
EQ_CLK (12)
EVR_RF_LD_H (12)
EVR_VIN_LD_H (12)
POW_DOWN (12)
AV_CS_DIF_L (11)
AV_CS_SDI_L (11)
AV_ADRS9 (11)
AV_ADRS6 (11)
AV_ADRS3 (11)
AV_ADRS0 (11)
AV_RST_L (11)
AV_DATA5 (11)
AV_DATA2 (11)
P1
K1KA96B00032
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B TC_IN_C
7B FAN_PULSE1
8B TRANSMIT_A_IN_OUT
9B RECEIVE_B_OUT
10B VIDEO_GAIN
11B HUE
12B SYS_SC_CORSE_1
13B P_SERIAL_IN
14B STB_CLK16
15B RS232C_PIN3
16B OSD_DATA
17B EQ_DATA
18B EVR_CLK
19B REC1
20B BPF_SEL
21B AV_CS_VIDEO_L
22B AV_CS_AUDIO_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
26B AV_IORD_L
27B AV_DATA7
28B AV_DATA4
29B AV_DATA1
30B +3.3V
31B +5V
32B GND
TC_IN_C (10)
FAN_PULSE1 (6)
TRANSMIT_A_IN_OUT (3)
RECEIVE_B_OUT (3)
VIDEO_GAIN (12)
HUE (12)
SYS_SC_CORSE_1 (12)
P_SERIAL_IN (4)
STB_CLK16 (4)
(TXD) RS232C_PIN3 (3)
OSD_DATA (8)
EQ_DATA (12)
EVR_CLK (12)
REC1 (12)
BPF_SEL (12)
AV_CS_VIDEO_L (11)
AV_CS_AUDIO_L (11)
AV_ADRS8 (11)
AV_ADRS5 (11)
AV_ADRS2 (11)
AV_IORD_L (11)
AV_DATA7 (11)
AV_DATA4 (11)
AV_DATA1 (11)
P1
K1KA96B00032
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C TC_OUT_H
7C RECEIVE_A_IN_OUT
8C TRANSMIT_B_IN_OUT
9C TRANSMIT_A_OUT
10C SET_UP
11C SYS_H_PHASE
12C SYS_SC_CORSE_2
13C P_SERIAL_OUT
14C RS232C_PIN6
15C RS232C_PIN2
16C OSD_STB
17C EQ_SDE
18C EVR_DATA
19C EDIT_MODE
20C EQ_RESET
21C AV_CS_DPROC_L
22C AV_ADRS10
23C AV_ADRS7
24C AV_ADRS4
25C AV_ADRS1
26C AV_IOWR_L
27C AV_DATA6
28C AV_DATA3
29C AV_DATA0
30C +3.3V
31C +5V
32C GND
TC_OUT_H (10)
RECEIVE_A_IN_OUT (3)
TRANSMIT_B_IN_OUT (3)
TRANSMIT_A_OUT (3)
SET_UP (12)
SYS_H_PHASE (12)
SYS_SC_CORSE_2 (12)
P_SERIAL_OUT (4)
(DTR) RS232C_PIN6 (3)
(RXD) RS232C_PIN2 (3)
OSD_STB (8)
EQ_SDE (12)
EVR_DATA (12)
EDIT_MODE (12)
EQ_RESET (12)
AV_CS_DPROC_L (11)
AV_ADRS10 (11)
AV_ADRS7 (11)
AV_ADRS4 (11)
AV_ADRS1 (11)
AV_IOWR_L (11)
AV_DATA6 (11)
AV_DATA3 (11)
AV_DATA0 (11)
SV_AB[0-10] (8)
SV_DB[0-7] (8)
P2
K1KA96B00032
1A GND
2A PB_SEL
3A SYS_REV_H
4A SV_AB0
5A SV_AB3
6A SV_AB6
7A SV_AB9
8A SV_DB1
9A SV_DB4
10A SV_DB7
11A SV_WR_L
12A SERVO_RESET_L
13A VIDEO_IN_L
14A YC_WIDE_L
15A SYS_FEND
16A AV_DV_DAT
17A
18A TC_CSYNC_L
19A CHR_VSYNC_L
20A CHR_DATA_H
21A LTC_CLK
22A
23A P1394_TX
24A DEW_ON_H
25A
26A F_HP_VR
27A FR_SER0B
28A A_IN_SEL_SW_L
29A U_FRONT_DATA
30A FR_CLK
31A
32A GND
[0] [3] [6] [9] [1] [4] [7]
PB_SEL (8)
SYS_REV_H (12)
SV_WR_L (8)
SERVO_RESET_L (6)
VIDEO_IN_L (12)
YC_WIDE_L (12)
SYS_FEND (12)
AV_DV_DATA (12)
TC_CSYNC_L (12)
CHR_VSYNC_L (8)
CHR_DATA_H (8)
LTC_CLK (12)
P1394_TX (12)
DEW_ON_H (6)
F_HP_VR (6)
FR_SER0B (3)
A_IN_SEL_SW_L (4)
U_FRONT_DATA (4)
FR_CLK (5)
P2
K1KA96B00032
1B GND
2B DVCPRO_H
3B SERVO_LOCK_L
4B SV_AB1
5B SV_AB4
6B SV_AB7
7B SV_AB10
8B SV_DB2
9B SV_DB5
10B SYS_CS_L
11B SV_BUSY_L
12B
13B BW_L
14B
15B FM_FLAG
16B DV_AV_DAT
17B
18B TC_VSYNC_L
19B CHR_HSYNC_L
20B ENC_CLK
21B
22B
23B
24B DEW_GND
25B F_REC_VR1
26B F_VR_GND
27B FR_SER1A
28B V_IN_SEL_SW_L
29B FR_KEY
30B FR_STB
31B
32B GND
[1] [4] [7] [10] [2] [5]
DVCPRO_H (8)
SERVO_LOCK_L (12)
SYS_CS_L (8)
SV_BUSY_L (8)
BW_L (12)
FM_FLAG (12)
DV_AV_DATA (12)
TC_VSYNC_L (12)
CHR_HSYNC_L (8)
ENC_CLK (12)
DEW_GND (6)
F_REC_VR1 (6)
F_VR_GND (6)
FR_SER1A (3)
V_IN_SEL_SW_L (4)
FR_KEY (5)
FR_STB (5)
P2
K1KA96B00032
1C GND
2C FORCE_POFF_H
3C FR_PULSE
4C SV_AB2
5C SV_AB5
6C SV_AB8
7C SV_DB0
8C SV_DB3
9C SV_DB6
10C SV_RD_L
11C SYS_SV_INT_L
12C VLOCK_L
13C NSTD_H
14C SYS_FRP
15C AV_DV_CLK
16C AV_DV_REQ
17C SYS_OUT_FRM
18C CHR_CLK
19C CHR_GATE_H
20C ENC_DATA
21C
22C P1394_RX
23C
24C
25C F_REC_VR2
26C FR_SER0A
27C FR_SER1B
28C EJECT_SW_L
29C FR_VFD_LED
30C FR_RST_L
31C
32C GND
[2] [5] [8] [0] [3] [6]
FORCE_POFF_H (6)
FR_PULSE (12)
SV_RD_L (8)
SYS_SV_INT_L (8)
VLOCK_L (12)
NSTD_H (12)
SYS_FRP (12)
AV_DV_CLK (12)
AV_DV_REQ (12)
SYS_OUT_FRM (12)
CHR_CLK (8)
CHR_GATE_H (8)
ENC_DATA (12)
P1394_RX (12)
F_REC_VR2 (6)
FR_SER0A (3)
FR_SER1B (3)
EJECT_SW_L (4)
FR_VFD_LED (5)
FR_RST_L (5)
A
B
C
D
E
F
G
H
I
J
1
2
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6
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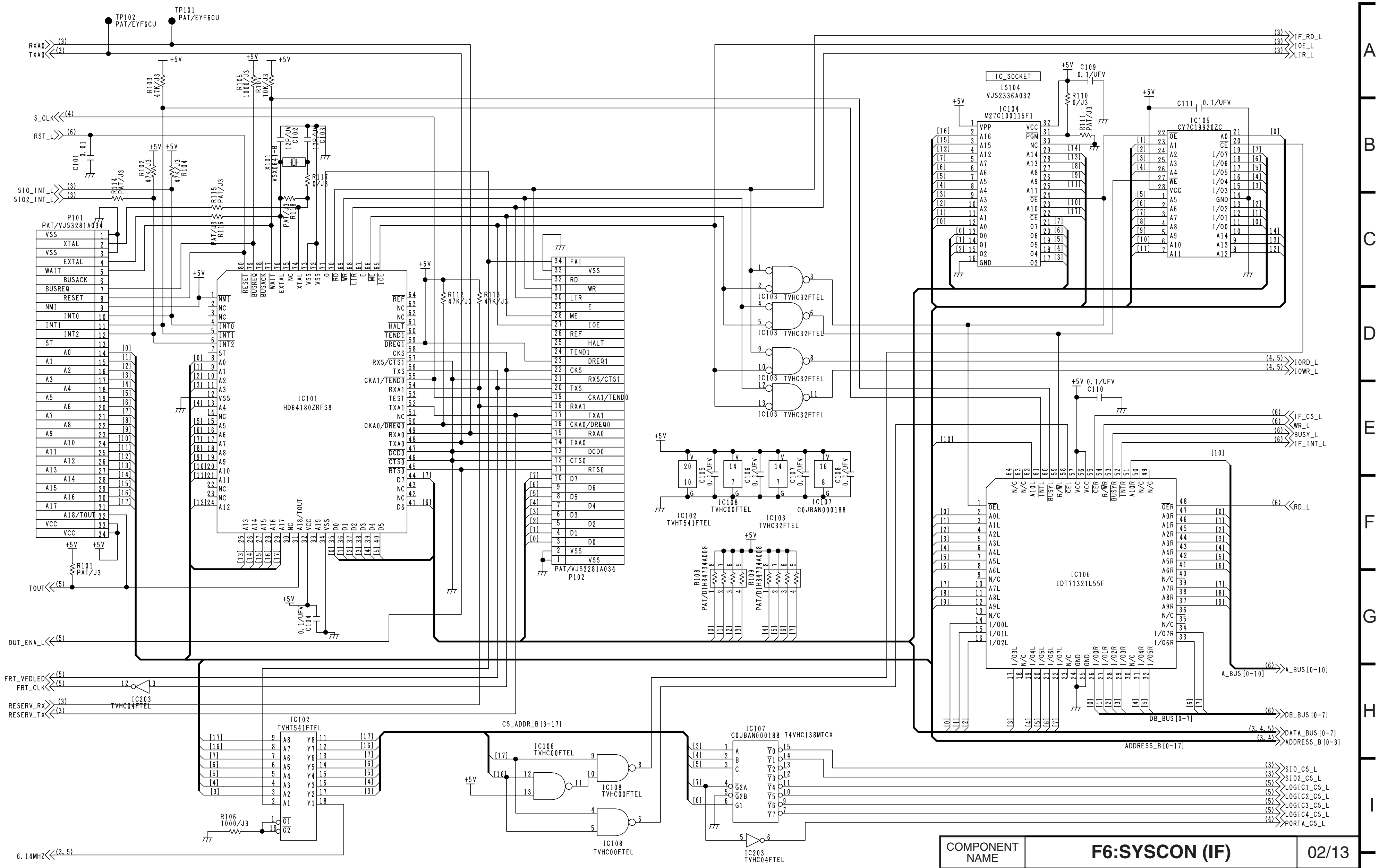
Ref No.1～99 Series.

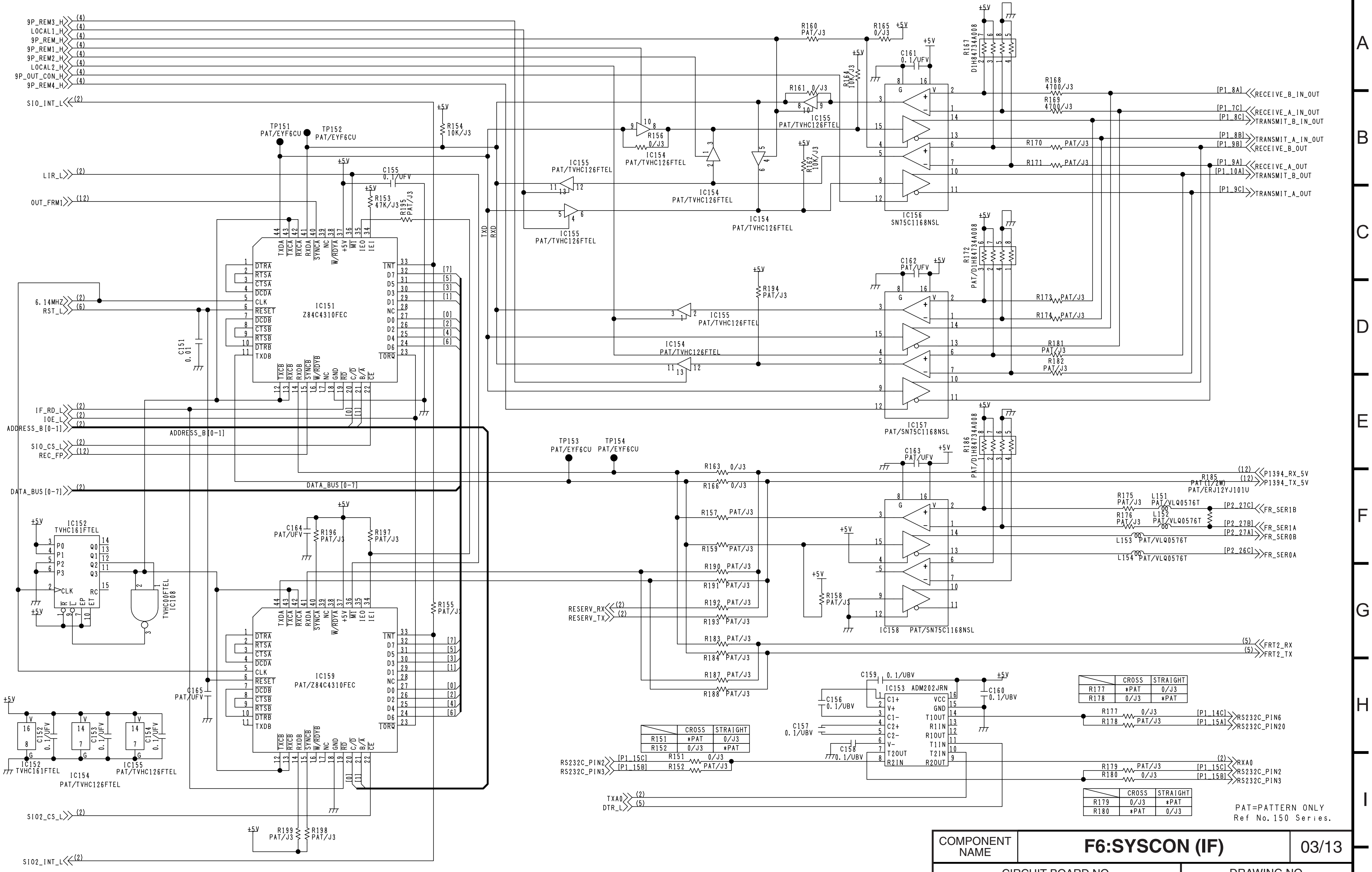
COMPONENT NAME	F6:SYSCON	01/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314A		KR6T80 (1/13)
		SCM081



TP102 PAT/EYF6CU
TP101 PAT/EYF6CU
RXA0
TXA0
S_CLK
RST_L
SIO_INT_L
SIO2_INT_L
P101 PAT/VJS3281A034
TOUT
OUT_ENA_L
FRT_VFDLED
FRT_CLK
RESERV_RX
RESERV_TX
6.14MHZ
IC101 HD64180ZRFS8
IC102 TVHT541FTEL
IC103 TVHC32FTEL
IC104 M27C100115F1
IS104 VJS2336A032
IC_SOCKET
IC105 CY7C19920ZC
IC106 IDT71321L55F
IC107 C0JBAN000188 74VHC138MTCX
IC108 TVHC00FTEL
IC203 TVHC04FTEL
X101 VSX0641-B
P102 PAT/VJS3281A034
R108 PAT/D1H84734A008
R109 PAT/D1H84734A008
CS_ADDR_B[3-17]
IF_RD_L
IOE_L
LIR_L
IORD_L
IOWR_L
IF_CS_L
WR_L
BUSY_L
IF_INT_L
RD_L
A_BUS[0-10]
DB_BUS[0-7]
DATA_BUS[0-7]
ADDRESS_B[0-3]
ADDRESS_B[0-17]
SIO_CS_L
SIO2_CS_L
LOGIC1_CS_L
LOGIC2_CS_L
LOGIC3_CS_L
LOGIC4_CS_L
PORTA_CS_L
+5V

PAT=PATTERN ONLY
Ref No. 100 Series.

COMPONENT NAME	F6:SYSCON (IF)	02/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (2/13)	
	SCM082	


9P_REM3_H
LOCAL1_H
9P_REM_H
9P_REM1_H
9P_REM2_H
LOCAL2_H
9P_OUT_CON_H
9P_REM4_H
SIO_INT_L
LIR_L
OUT_FRM1
6.14MHZ
RST_L
IF_RD_L
IOE_L
ADDRESS_B[0-1]
SIO_CS_L
REC_FP
DATA_BUS[0-7]
SIO2_CS_L
SIO2_INT_L
IC151
Z84C4310FEC
IC159
PAT/Z84C4310FEC
IC152
TVHC161FTEL
IC108
TVHC00FTEL
IC154
PAT/TVHC126FTEL
IC155
PAT/TVHC126FTEL
IC156
SN75C1168NSL
IC157
PAT/SN75C1168NSL
IC158
PAT/SN75C1168NSL
IC153
ADM202JRN
TP151
PAT/EYF6CU
TP152
PAT/EYF6CU
TP153
PAT/EYF6CU
TP154
PAT/EYF6CU
R167
D1H8734A008
R172
PAT/D1H8734A008
R186
PAT/D1H8734A008
R185
PAT(1/2W)
PAT/ERJ12YJ101U
RECEIVE_B_IN_OUT
RECEIVE_A_IN_OUT
TRANSMIT_B_IN_OUT
TRANSMIT_A_IN_OUT
RECEIVE_B_OUT
RECEIVE_A_OUT
TRANSMIT_B_OUT
TRANSMIT_A_OUT
P1394_RX_5V
P1394_TX_5V
FR_SER1B
FR_SER1A
FR_SER0B
FR_SER0A
FRT2_RX
FRT2_TX
RESERV_RX
RESERV_TX
RS232C_PIN6
RS232C_PIN20
RXA0
RS232C_PIN2
RS232C_PIN3
TXA0
DTR_L
ADDRESS_B[0-1]
DATA_BUS[0-7]
TXD
RXD

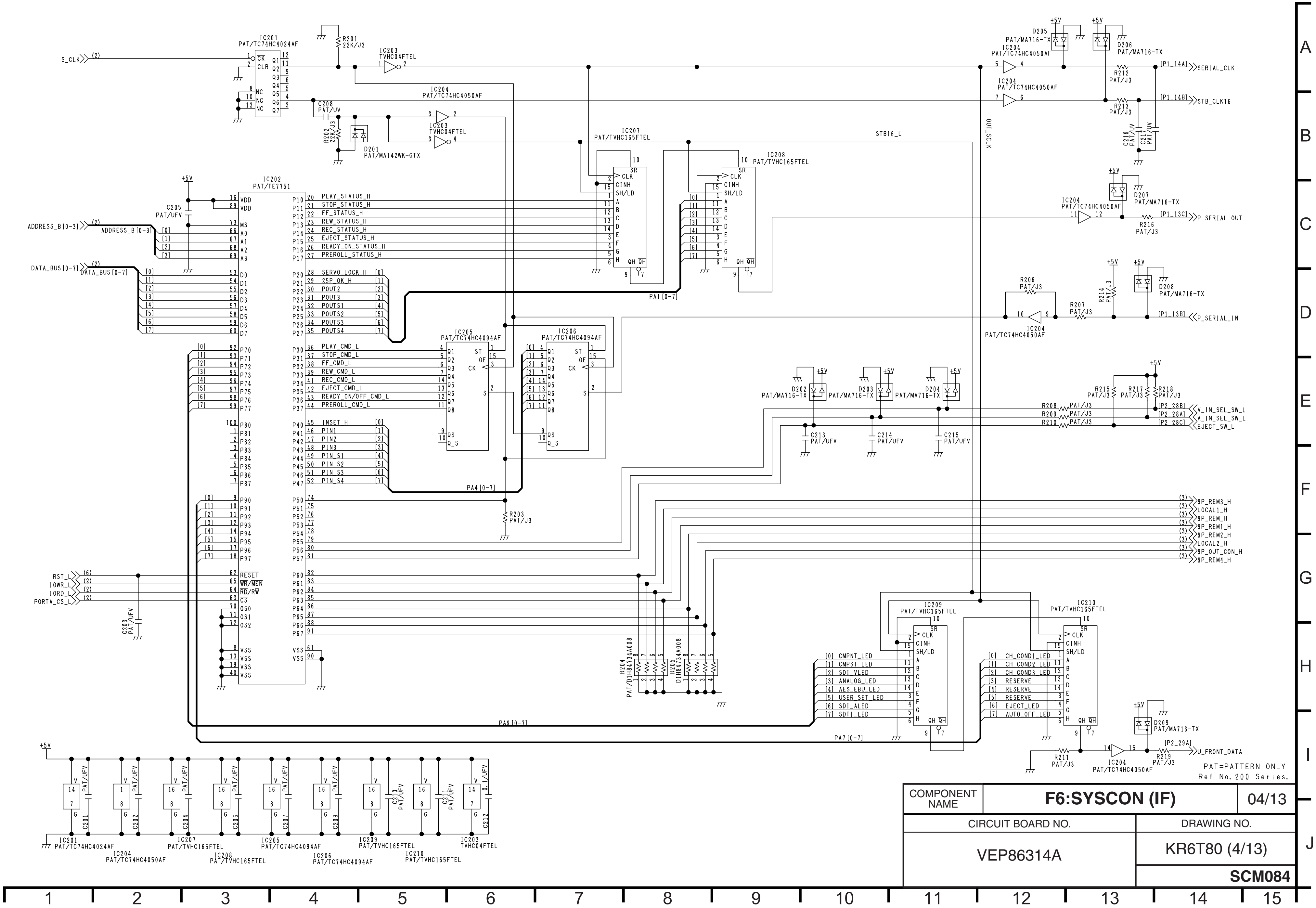
	CROSS	STRAIGHT
R151	*PAT	0/J3
R152	0/J3	*PAT

	CROSS	STRAIGHT
R177	*PAT	0/J3
R178	0/J3	*PAT

	CROSS	STRAIGHT
R179	0/J3	*PAT
R180	*PAT	0/J3

PAT=PATTERN ONLY
Ref No.150 Series.

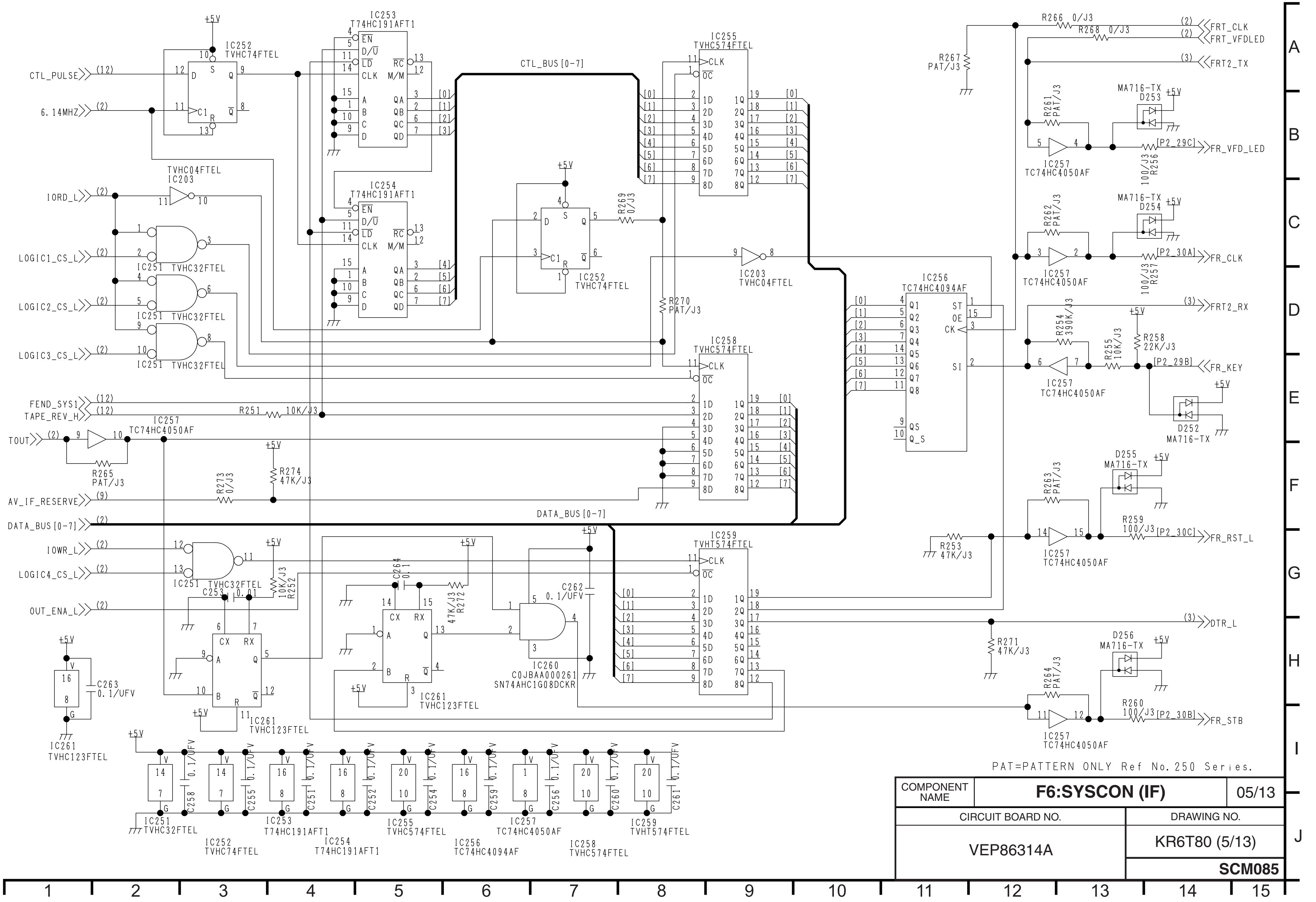
COMPONENT NAME	F6:SYSCON (IF)	03/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (3/13)	
	SCM083	



S_CLK
IC201 PAT/TC74HC4024AF
R201 22K/J3
IC203 TVHC04FTEL
IC204 PAT/TC74HC4050AF
C208 PAT/UV
R202 22K/J3
D201 PAT/MA142WK-GTX
IC207 PAT/TVHC165FTEL
IC208 PAT/TVHC165FTEL
STB16_L
OUT_SCLK
D205 PAT/MA716-TX
D206 PAT/MA716-TX
R212 PAT/J3
R213 PAT/J3
[P1_14A] SERIAL_CLK
[P1_14B] STB_CLK16
C216 PAT/UV
C217 PAT/UV
D207 PAT/MA716-TX
R216 PAT/J3
[P1_13C] P_SERIAL_OUT
R206 PAT/J3
R207 PAT/J3
R214 PAT/J3
D208 PAT/MA716-TX
[P1_13B] P_SERIAL_IN
IC202 PAT/TE7751
C205 PAT/UFV
ADDRESS_B[0-3]
DATA_BUS[0-7]
PLAY_STATUS_H
STOP_STATUS_H
FF_STATUS_H
REW_STATUS_H
REC_STATUS_H
EJECT_STATUS_H
READY_ON_STATUS_H
PREROLL_STATUS_H
SERVO_LOCK_H
25P_OK_H
POUT2
POUT3
POUTS1
POUTS2
POUTS3
POUTS4
PA1[0-7]
PLAY_CMD_L
STOP_CMD_L
FF_CMD_L
REW_CMD_L
REC_CMD_L
EJECT_CMD_L
READY_ON/OFF_CMD_L
PREROLL_CMD_L
IC205 PAT/TC74HC4094AF
IC206 PAT/TC74HC4094AF
INSET_H
PIN1
PIN2
PIN3
PIN_S1
PIN_S2
PIN_S3
PIN_S4
PA4[0-7]
R203 PAT/J3
D202 PAT/MA716-TX
D203 PAT/MA716-TX
D204 PAT/MA716-TX
C213 PAT/UFV
C214 PAT/UFV
C215 PAT/UFV
R208 PAT/J3
R209 PAT/J3
R210 PAT/J3
R215 PAT/J3
R217 PAT/J3
R218 PAT/J3
[P2_28B] V_IN_SEL_SW_L
[P2_28A] A_IN_SEL_SW_L
[P2_28C] EJECT_SW_L
9P_REM3_H
LOCAL1_H
9P_REM_H
9P_REM1_H
9P_REM2_H
LOCAL2_H
9P_OUT_CON_H
9P_REM4_H
RST_L
IOWR_L
IORD_L
PORTA_CS_L
C203 PAT/UFV
R204 PAT/D1H84734A008
R205 PAT/D1H84734A008
IC209 PAT/TVHC165FTEL
IC210 PAT/TVHC165FTEL
CMPNT_LED
CMPST_LED
SDI_VLED
ANALOG_LED
AES_EBU_LED
USER_SET_LED
SDI_ALED
SDTI_LED
CH_COND1_LED
CH_COND2_LED
CH_COND3_LED
RESERVE
EJECT_LED
AUTO_OFF_LED
PA9[0-7]
PA7[0-7]
D209 PAT/MA716-TX
R211 PAT/J3
R219 PAT/J3
[P2_29A] U_FRONT_DATA
+5V
C201 C202 C204 C206 C207 C209 C210 C211 C212
IC203 TVHC04FTEL
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

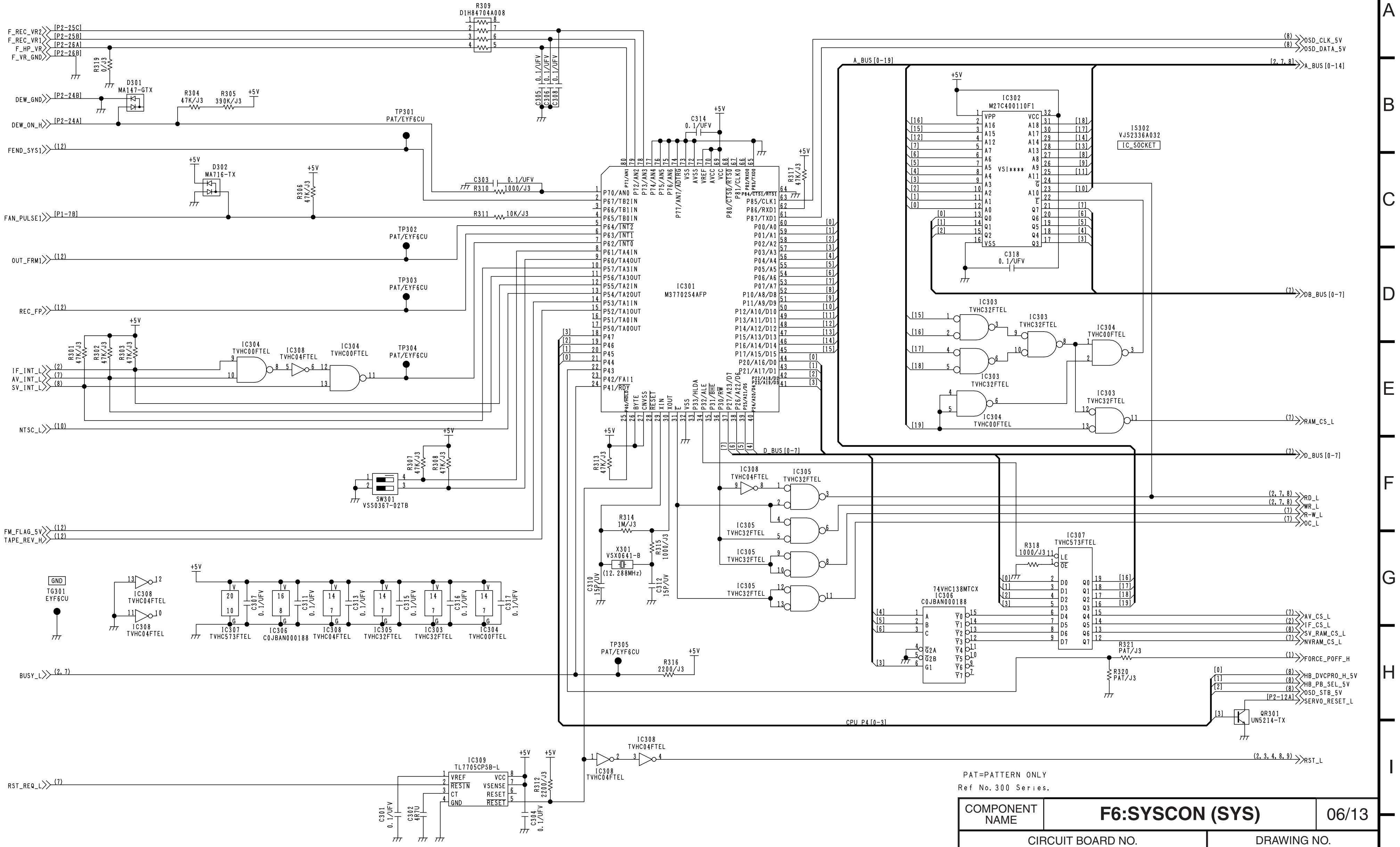
PAT=PATTERN ONLY
Ref No. 200 Series.

COMPONENT NAME	F6:SYSCON (IF)	04/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (4/13)	
	SCM084	


IC253
T74HC191AFT1
IC254
T74HC191AFT1
IC252
TVHC74FTEL
IC255
TVHC574FTEL
IC258
TVHC574FTEL
IC259
TVHT574FTEL
IC256
TC74HC4094AF
IC257
TC74HC4050AF
IC251
TVHC32FTEL
IC203
TVHC04FTEL
IC261
TVHC123FTEL
IC260
C0JBAA000261
SN74AHC1G08DCKR
CTL_BUS[0-7]
DATA_BUS[0-7]
CTL_PULSE
6.14MHZ
IORD_L
LOGIC1_CS_L
LOGIC2_CS_L
LOGIC3_CS_L
FEND_SYS1
TAPE_REV_H
TOUT
AV_IF_RESERVE
DATA_BUS[0-7]
IOWR_L
LOGIC4_CS_L
OUT_ENA_L
FRT_CLK
FRT_VFDLED
FRT2_TX
FR_VFD_LED
FR_CLK
FRT2_RX
FR_KEY
FR_RST_L
DTR_L
FR_STB
R266 0/J3
R268 0/J3
R267 PAT/J3
R261 PAT/J3
R262 PAT/J3
R263 PAT/J3
R264 PAT/J3
R256 100/J3
R257 100/J3
R259 100/J3
R260 100/J3
R254 390K/J3
R255 10K/J3
R258 22K/J3
R253 47K/J3
R271 47K/J3
R269 0/J3
R270 PAT/J3
R251 10K/J3
R265 PAT/J3
R273 0/J3
R274 47K/J3
R252 10K/J3
R272 47K/J3
C253 0.01
C264 0.1
C262 0.1/UFV
C263 0.1/UFV
D252 MA716-TX
D253 MA716-TX
D254 MA716-TX
D255 MA716-TX
D256 MA716-TX
[P2_29C]
[P2_30A]
[P2_29B]
[P2_30C]
[P2_30B]
+5V
C258
C255
C251
C252
C254
C259
C256
C260
C261
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J

PAT=PATTERN ONLY Ref No.250 Series.

COMPONENT NAME	F6:SYSCON (IF)	05/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (5/13)	
	SCM085	


F_REC_VR2
F_REC_VR1
F_HP_VR
F_VR_GND
DEW_GND
DEW_ON_H
FEND_SYS1
FAN_PULSE1
OUT_FRM1
REC_FP
IF_INT_L
AV_INT_L
SV_INT_L
NTSC_L
FM_FLAG_5V
TAPE_REV_H
BUSY_L
RST_REQ_L
R309
D1H84704A008
R319
0/J3
D301
MA147-GTX
R304
47K/J3
R305
390K/J3
+5V
TP301
PAT/EYF6CU
D302
MA716-TX
R306
47K/J3
C303
0.1/UFV
R310
1000/J3
R311
10K/J3
TP302
PAT/EYF6CU
TP303
PAT/EYF6CU
TP304
PAT/EYF6CU
R301
R302
R303
47K/J3
IC304
TVHC00FTEL
IC308
TVHC04FTEL
R307
R308
SW301
VSS0367-02TB
C305
C306
C308
0.1/UFV
C314
0.1/UFV
IC301
M37702S4AFP
R317
47K/J3
R313
47K/J3
R314
1M/J3
X301
VSX0641-B
(12.288MHz)
R315
1000/J3
C310
15P/UV
C312
15P/UV
TP305
PAT/EYF6CU
R316
2200/J3
IC309
TL7705CPSB-L
VREF
RESIN
CT
GND
VCC
VSENSE
RESET
C301
0.1/UFV
C302
4R7U
R312
2200/J3
C304
0.1/UFV
GND
TG301
EYF6CU
IC307
TVHC573FTEL
IC306
C0JBAN000188
IC305
TVHC32FTEL
IC303
TVHC32FTEL
C307
C311
C313
C315
C316
C317
0.1/UFV
IC302
M27C400110F1
VSI****
C318
0.1/UFV
IS302
VJS2336A032
IC_SOCKET
74VHC138MTCX
R318
1000/J3
R321
PAT/J3
R320
PAT/J3
QR301
UN5214-TX
A_BUS[0-19]
D_BUS[0-7]
CPU P4[0-3]
OSD_CLK_5V
OSD_DATA_5V
A_BUS[0-14]
DB_BUS[0-7]
RAM_CS_L
D_BUS[0-7]
RD_L
WR_L
R-W_L
OC_L
AV_CS_L
IF_CS_L
SV_RAM_CS_L
NVRAM_CS_L
FORCE_POFF_H
HB_DVCPRO_H_5V
HB_PB_SEL_5V
OSD_STB_5V
SERVO_RESET_L
RST_L
A
B
C
D
E
F
G
H
I
J
1
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6
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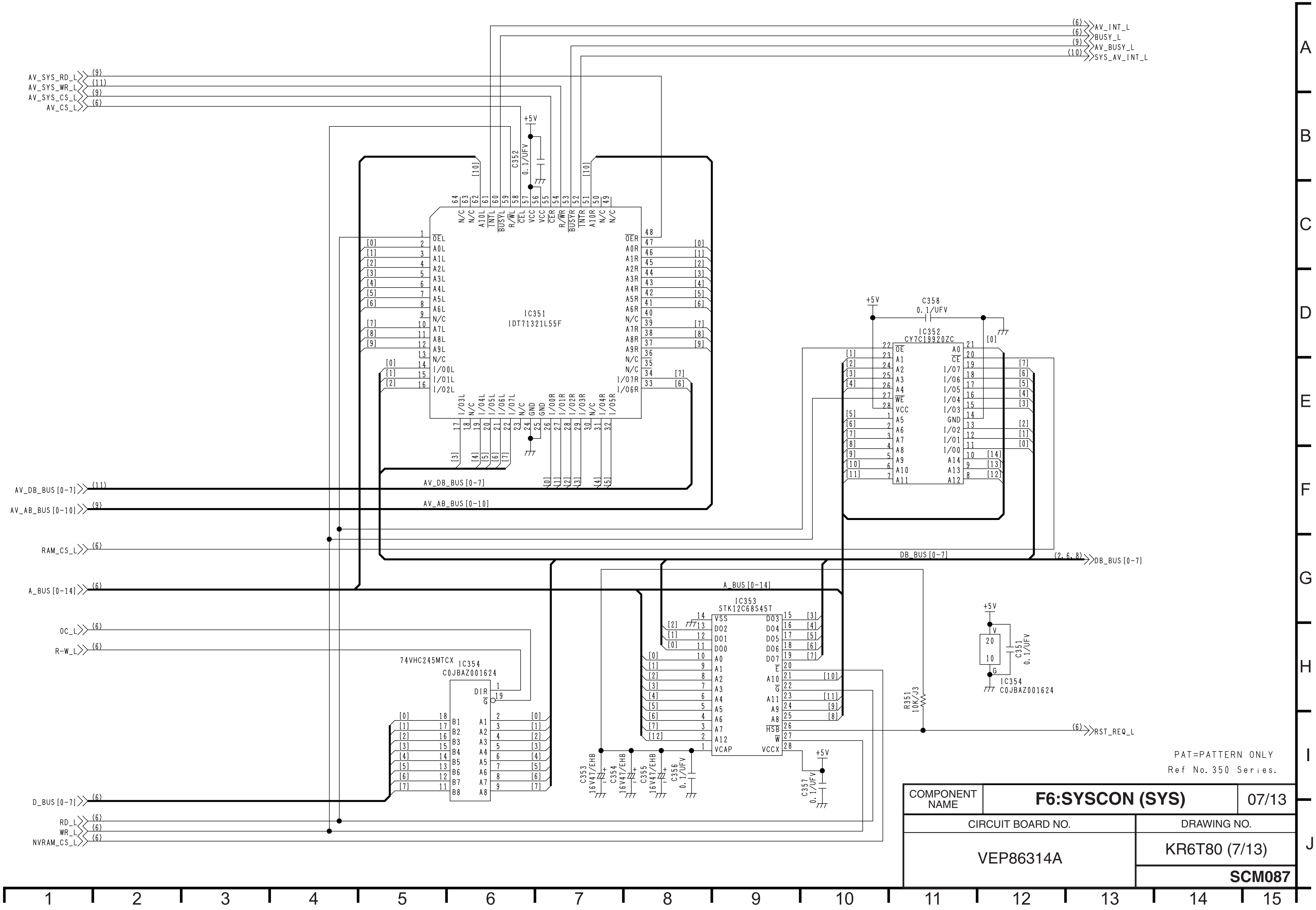
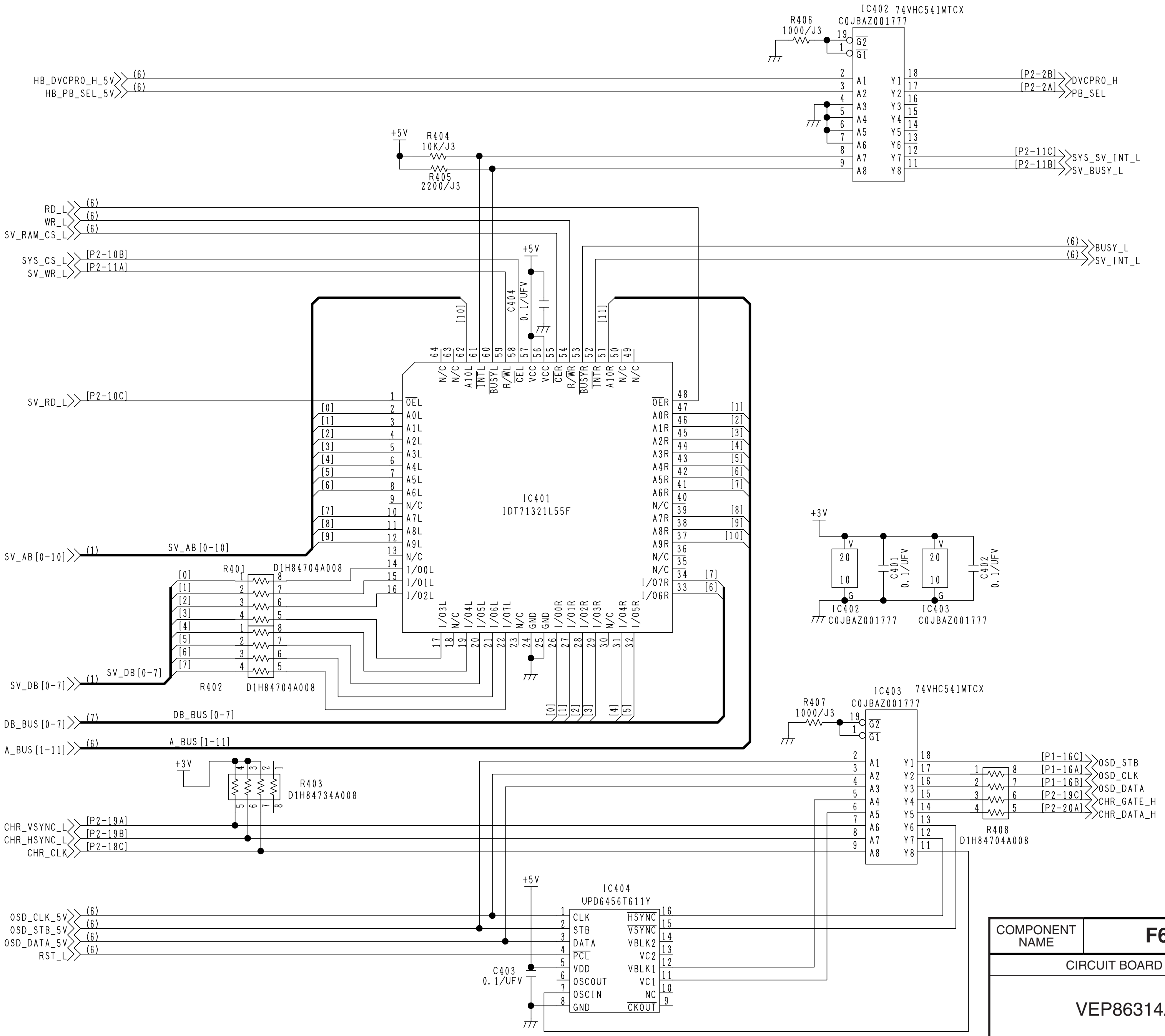
PAT=PATTERN ONLY

Ref No. 300 Series.

COMPONENT NAME	F6:SYSCON (SYS)		06/13
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86314A		KR6T80 (6/13)	
		SCM086	


AV_INT_L (6)
BUSY_L (6)
AV_BUSY_L (9)
SYS_AV_INT_L (10)
AV_SYS_RD_L (9)
AV_SYS_WR_L (11)
AV_SYS_CS_L (9)
AV_CS_L (6)
+5V
C352
0.1/UFV
IC351
IDT71321L55F
OEL
A0L A1L A2L A3L A4L A5L A6L
N/C
A7L A8L A9L
I/O0L I/O1L I/O2L
OER
A0R A1R A2R A3R A4R A5R A6R
A7R A8R A9R
I/O7R I/O6R
A10L INTL BUSYL R/WL CEL VCC CER R/WR BUSYR INTR A10R
I/O3L I/O4L I/O5L I/O6L I/O7L GND I/O0R I/O1R I/O2R I/O3R I/O4R I/O5R
AV_DB_BUS [0-7] (11)
AV_AB_BUS [0-10] (9)
RAM_CS_L (6)
A_BUS [0-14] (6)
OC_L (6)
R-W_L (6)
D_BUS [0-7] (6)
RD_L (6)
WR_L (6)
NVRAM_CS_L (6)
DB_BUS [0-7]
(2, 6, 8) DB_BUS [0-7]
+5V
C358
0.1/UFV
IC352
CY7C199202C
OE A1 A2 A3 A4 WE VCC A5 A6 A7 A8 A9 A10 A11
A0 CE I/O7 I/O6 I/O5 I/O4 I/O3 GND I/O2 I/O1 I/O0 A14 A13 A12
A_BUS [0-14]
IC353
STK12C68S45T
VSS DO2 DO1 DO0 A0 A1 A2 A3 A4 A5 A6 A7 A12 VCAP
DO3 DO4 DO5 DO6 DO7 E A10 G A11 A9 A8 HSB W VCCX
74VHC245MTCX IC354
C0JBAZ001624
DIR G
B1 B2 B3 B4 B5 B6 B7 B8
A1 A2 A3 A4 A5 A6 A7 A8
C353 16V47/EHB
C354 16V47/EHB
C355 16V47/EHB
C356 0.1/UFV
C357 0.1/UFV
+5V
R351 10K/J3
(6) RST_REQ_L
+5V
C351 0.1/UFV
IC354
C0JBAZ001624
PAT=PATTERN ONLY
Ref No.350 Series.
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

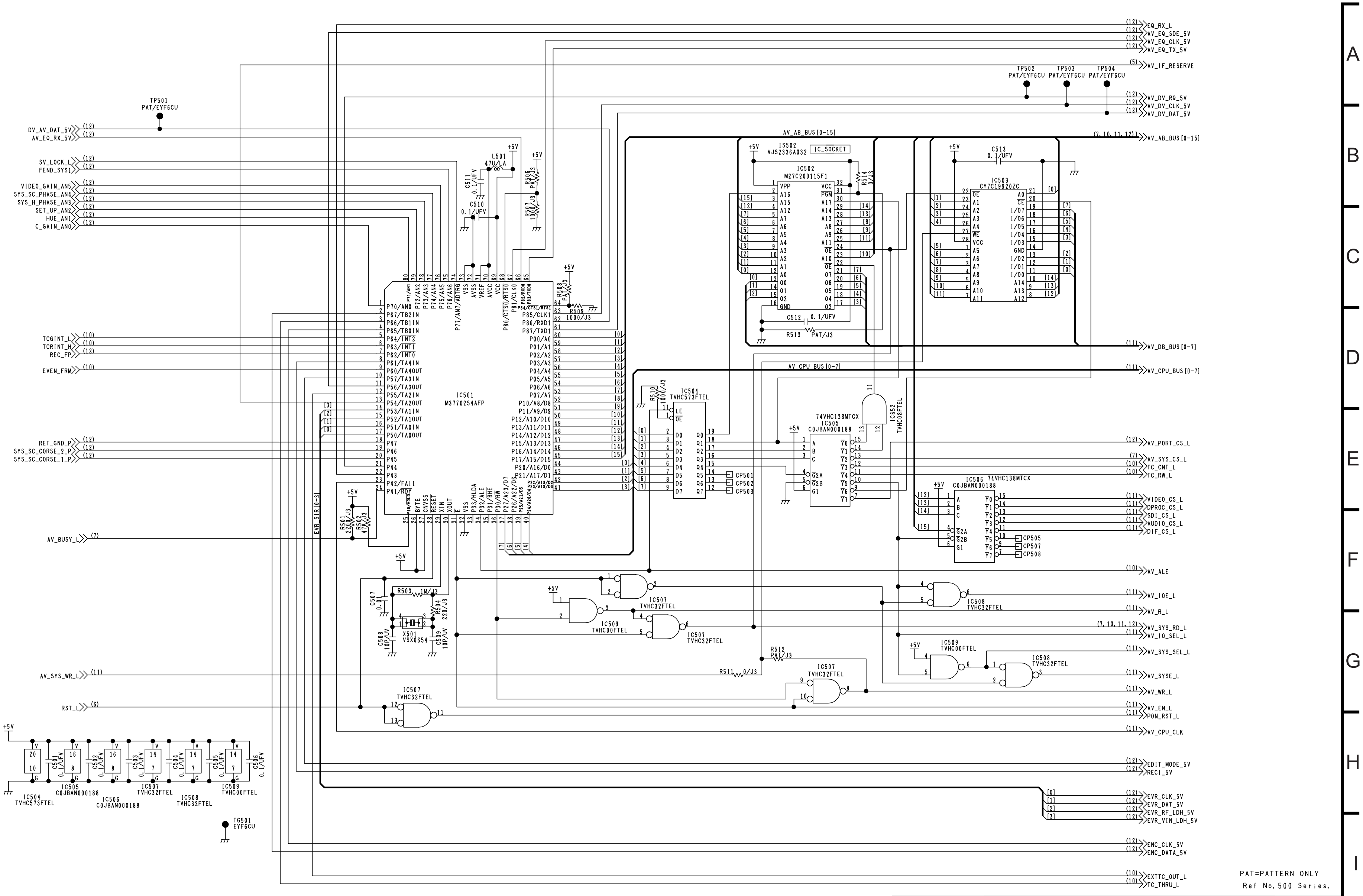
COMPONENT NAME	F6:SYSCON (SYS)	07/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (7/13)	
	SCM087	


IC402 74VHC541MTCX
C0JBAZ001777
R406
1000/J3
HB_DVCPRO_H_5V
HB_PB_SEL_5V
[P2-2B] DVCPRO_H
[P2-2A] PB_SEL
+5V
R404
10K/J3
R405
2200/J3
[P2-11C] SYS_SV_INT_L
[P2-11B] SV_BUSY_L
RD_L
WR_L
SV_RAM_CS_L
SYS_CS_L [P2-10B]
SV_WR_L [P2-11A]
BUSY_L
SV_INT_L
C404
0.1/UFV
SV_RD_L [P2-10C]
IC401
IDT71321L55F
SV_AB[0-10]
R401 D1H84704A008
R402 D1H84704A008
SV_DB[0-7]
DB_BUS[0-7]
A_BUS[1-11]
+3V
IC402 C0JBAZ001777
IC403 C0JBAZ001777
C401 0.1/UFV
C402 0.1/UFV
IC403 74VHC541MTCX
C0JBAZ001777
R407
1000/J3
R403
D1H84734A008
CHR_VSYNC_L [P2-19A]
CHR_HSYNC_L [P2-19B]
CHR_CLK [P2-18C]
[P1-16C] OSD_STB
[P1-16A] OSD_CLK
[P1-16B] OSD_DATA
[P2-19C] CHR_GATE_H
[P2-20A] CHR_DATA_H
R408
D1H84704A008
IC404
UPD6456T611Y
OSD_CLK_5V
OSD_STB_5V
OSD_DATA_5V
RST_L
C403
0.1/UFV

PAT=PATTERN ONLY

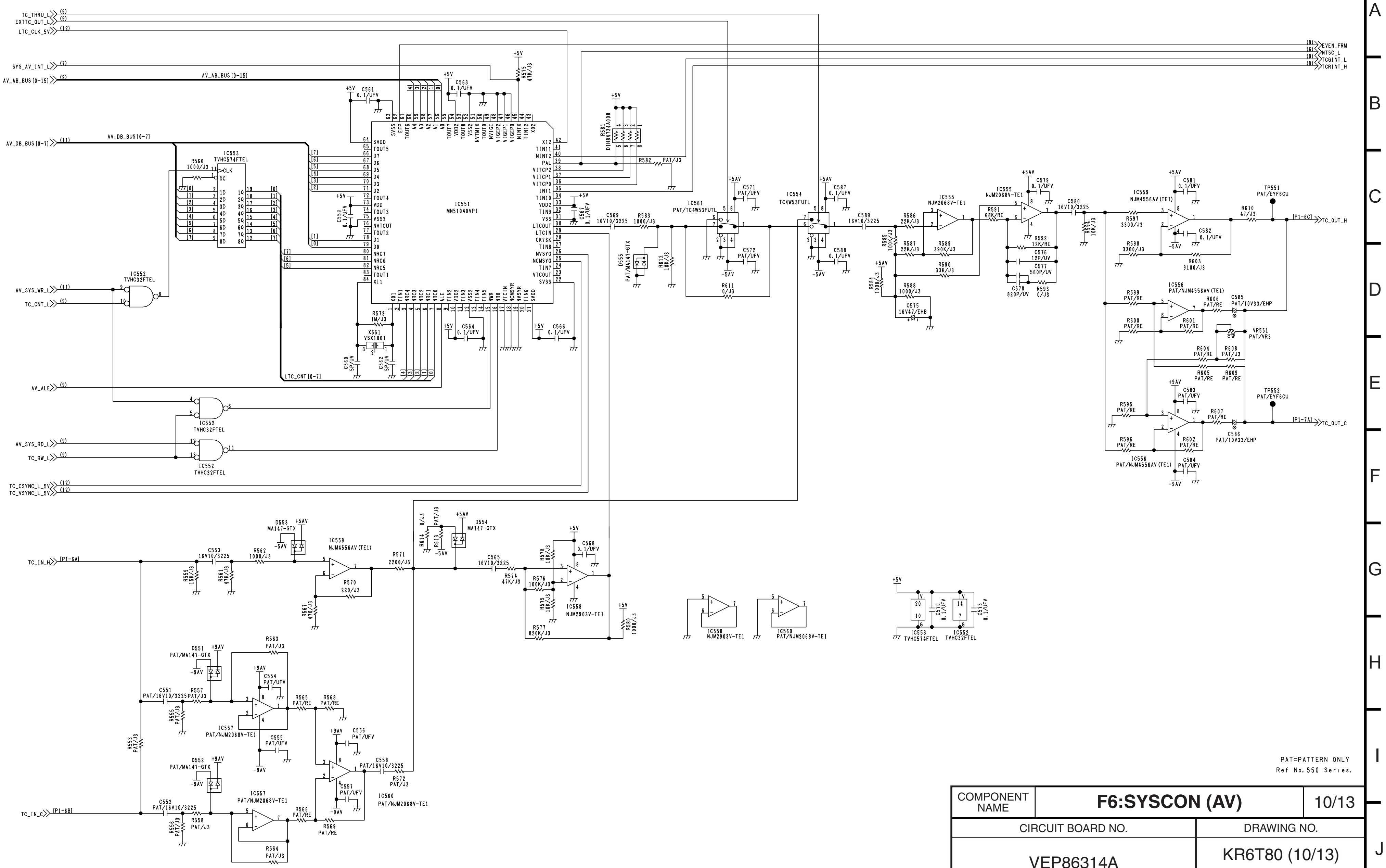
Ref No. 400 Series.

COMPONENT NAME	F6:SYSCON (SYS)	08/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (8/13)	
	SCM088	

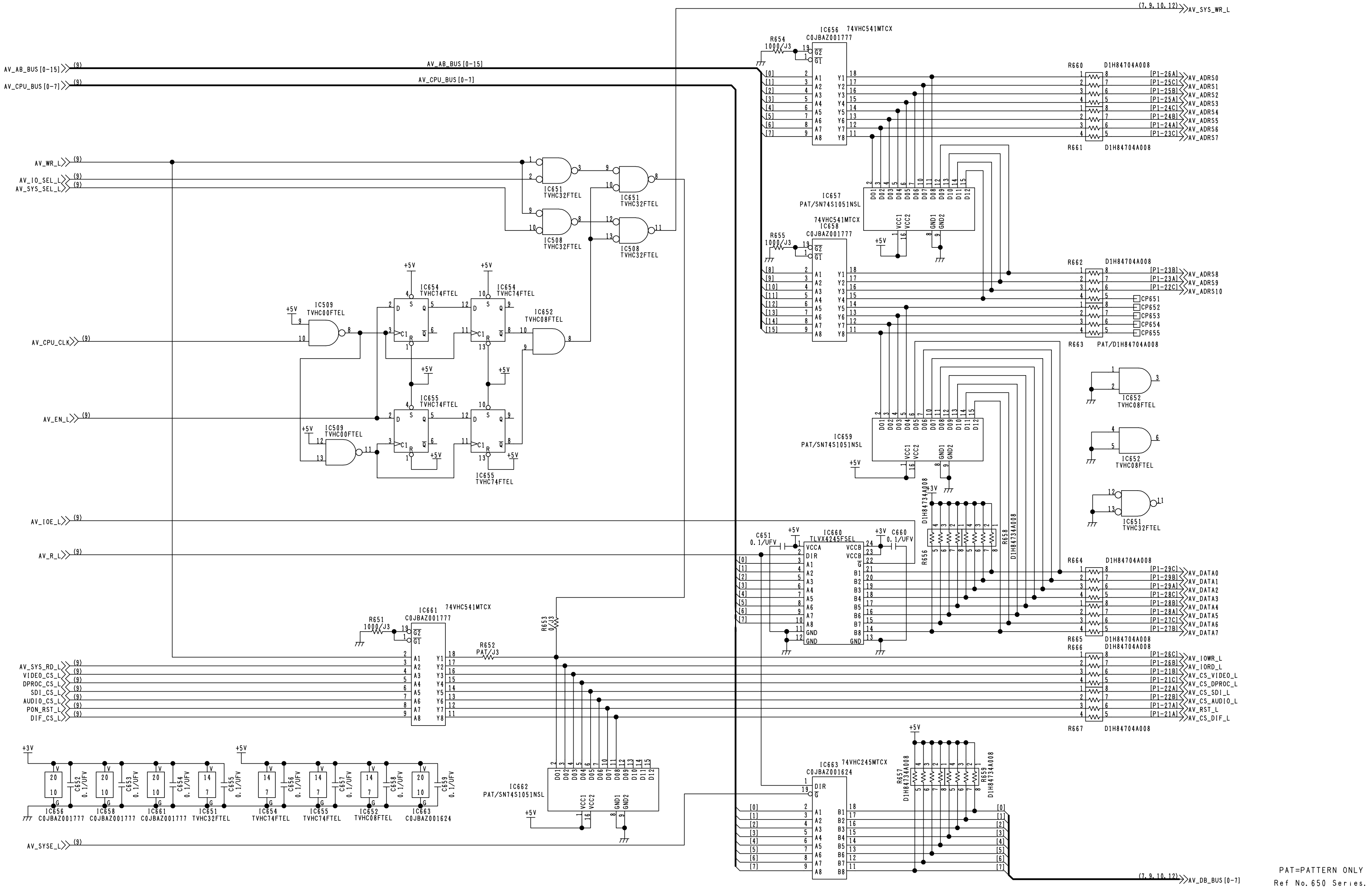

EQ_RX_L
AV_EQ_SDE_5V
AV_EQ_CLK_5V
AV_EQ_TX_5V
AV_IF_RESERVE
TP502 PAT/EYF6CU
TP503 PAT/EYF6CU
TP504 PAT/EYF6CU
AV_DV_RQ_5V
AV_DV_CLK_5V
AV_DV_DAT_5V
AV_AB_BUS[0-15]
TP501 PAT/EYF6CU
DV_AV_DAT_5V
AV_EQ_RX_5V
SV_LOCK_L
FEND_SYS1
VIDEO_GAIN_AN5
SYS_SC_PHASE_AN4
SYS_H_PHASE_AN3
SET_UP_AN2
HUE_AN1
C_GAIN_AN0
L501 47U/LA
C511 0.1/UFV
C510 0.1/UFV
R506 PAT/J3
R507 100/J3
R508 PAT/J3
R509 1000/J3
IS502 VJS2336A032
IC_SOCKET
IC502 M27C200115F1
IC503 CY7C199ZC
C513 0.1/UFV
C512 0.1/UFV
R513 PAT/J3
R514 0/J3
IC501 M37702S4AFP
TCGINT_L
TCRINT_H
REC_FP
EVEN_FRM
RET_GND_P
SYS_SC_CORSE_2_P
SYS_SC_CORSE_1_P
AV_BUSY_L
AV_DB_BUS[0-7]
AV_CPU_BUS[0-7]
IC504 TVHC573FTEL
R510 1000/J3
IC505 74VHC138MTCX C0JBAN000188
IC652 TVHC08FTEL
IC506 74VHC138MTCX C0JBAN000188
CP501
CP502
CP503
CP505
CP507
CP508
AV_PORT_CS_L
AV_SYS_CS_L
TC_CNT_L
TC_RW_L
VIDEO_CS_L
DPROC_CS_L
SDI_CS_L
AUDIO_CS_L
DIF_CS_L
EVR_SIR[0-3]
R501 220/J3
R502 47K/J3
R503 1M/J3
R504 220/J3
C507 0.01
C508 10P/UV
C519 10P/UV
X501 VSX0654
IC507 TVHC32FTEL
IC508 TVHC32FTEL
IC509 TVHC00FTEL
R512 PAT/J3
R511 0/J3
AV_ALE
AV_IOE_L
AV_R_L
AV_SYS_RD_L
AV_IO_SEL_L
AV_SYS_SEL_L
AV_SYSE_L
AV_WR_L
AV_EN_L
PON_RST_L
AV_CPU_CLK
AV_SYS_WR_L
RST_L
EDIT_MODE_5V
REC1_5V
EVR_CLK_5V
EVR_DAT_5V
EVR_RF_LDH_5V
EVR_VIN_LDH_5V
ENC_CLK_5V
ENC_DATA_5V
EXTTC_OUT_L
TC_THRU_L
C501 0.1/UFV
C502 0.1/UFV
C503 0.1/UFV
C504 0.1/UFV
C505 0.1/UFV
C506 0.1/UFV
IC504 TVHC573FTEL
IC505 C0JBAN000188
IC506 C0JBAN000188
IC507 TVHC32FTEL
IC508 TVHC32FTEL
IC509 TVHC00FTEL
TG501 EYF6CU
+5V

PAT=PATTERN ONLY
Ref No.500 Series.

COMPONENT NAME	F6:SYSCON (AV)	09/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (9/13)	
	SCM089	

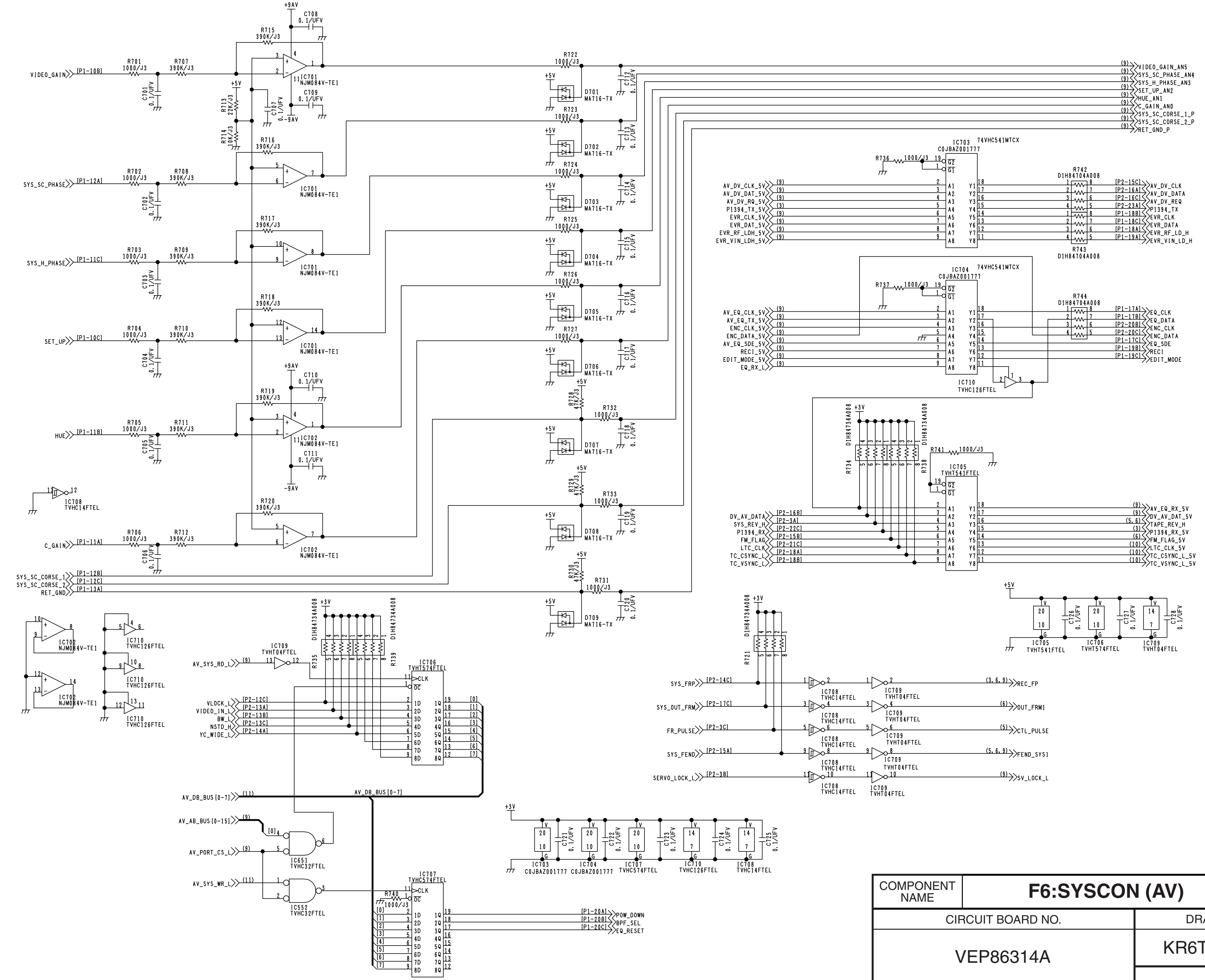

TC_THRU_L
EXTTC_OUT_L
LTC_CLK_5V
SYS_AV_INT_L
AV_AB_BUS[0-15]
AV_DB_BUS[0-7]
AV_SYS_WR_L
TC_CNT_L
AV_ALE
AV_SYS_RD_L
TC_RW_L
TC_CSYNC_L_5V
TC_VSYNC_L_5V
EVEN_FRM
NTSC_L
TCGINT_L
TCRINT_H
TC_OUT_H
TC_OUT_C
TC_IN_H
TC_IN_C
IC551
MN51040VPI
IC553
TVHC574FTEL
IC552
TVHC32FTEL
IC561
PAT/TC4W53FUTL
IC554
TC4W53FUTL
IC555
NJM2068V-TE1
IC559
NJM4556AV(TE1)
IC556
PAT/NJM4556AV(TE1)
IC558
NJM2903V-TE1
IC557
PAT/NJM2068V-TE1
IC560
PAT/NJM2068V-TE1
X551
VSX1001
RB1
D1H8473A008
D551
D552
PAT/MA147-GTX
D553
D554
MA147-GTX
D555
PAT/MA147-GTX
TP551
TP552
PAT/EYF6CU
VR551
PAT/VR3
LTC_CNT[0-7]
+5V
+5AV
-5AV
+9AV
-9AV
[P1-6A]
[P1-6B]
[P1-6C]
[P1-7A]
PAT=PATTERN ONLY
Ref No.550 Series.

COMPONENT NAME	F6:SYSCON (AV)	10/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (10/13)	
	SCM090	


AV_AB_BUS[0-15]
AV_CPU_BUS[0-7]
AV_WR_L
AV_IO_SEL_L
AV_SYS_SEL_L
AV_CPU_CLK
AV_EN_L
AV_IOE_L
AV_R_L
AV_SYS_RD_L
VIDEO_CS_L
DPROC_CS_L
SDI_CS_L
AUDIO_CS_L
PON_RST_L
DIF_CS_L
AV_SYSE_L
AV_SYS_WR_L
AV_ADRS0
AV_ADRS1
AV_ADRS2
AV_ADRS3
AV_ADRS4
AV_ADRS5
AV_ADRS6
AV_ADRS7
AV_ADRS8
AV_ADRS9
AV_ADRS10
CP651
CP652
CP653
CP654
CP655
AV_DATA0
AV_DATA1
AV_DATA2
AV_DATA3
AV_DATA4
AV_DATA5
AV_DATA6
AV_DATA7
AV_IOWR_L
AV_IORD_L
AV_CS_VIDEO_L
AV_CS_DPROC_L
AV_CS_SDI_L
AV_CS_AUDIO_L
AV_RST_L
AV_CS_DIF_L
AV_DB_BUS[0-7]
IC656 74VHC541MTCX C0JBAZ001777
IC658 74VHC541MTCX C0JBAZ001777
IC661 74VHC541MTCX C0JBAZ001777
IC657 PAT/SN74S1051NSL
IC659 PAT/SN74S1051NSL
IC662 PAT/SN74S1051NSL
IC660 TLVX4245FSEL
IC663 74VHC245MTCX C0JBAZ001624
IC651 TVHC32FTEL
IC508 TVHC32FTEL
IC509 TVHC00FTEL
IC652 TVHC08FTEL
IC654 TVHC74FTEL
IC655 TVHC74FTEL
R654 1000/J3
R655 1000/J3
R651 1000/J3
R652 PAT/J3
R653 0/J3
R660 D1H84704A008
R661 D1H84704A008
R662 D1H84704A008
R663 PAT/D1H84704A008
R664 D1H84704A008
R665 D1H84704A008
R666 D1H84704A008
R667 D1H84704A008
R656 D1H84734A008
R658 D1H84734A008
R657 D1H84734A008
R659 D1H84734A008
C651 0.1/UFV
C660 0.1/UFV
C652 0.1/UFV
C653 0.1/UFV
C654 0.1/UFV
C655 0.1/UFV
C656 0.1/UFV
C657 0.1/UFV
C658 0.1/UFV
C659 0.1/UFV
+5V
+3V
(7,9,10,12)
(9)

PAT=PATTERN ONLY
Ref No. 650 Series.

COMPONENT NAME	F6:SYSCON (AV)	11/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (11/13)	
	SCM091	


VIDEO_GAIN
SYS_SC_PHASE
SYS_H_PHASE
SET_UP
HUE
C_GAIN
SYS_SC_CORSE_1
SYS_SC_CORSE_2
RET_GND
[P1-10B]
[P1-12A]
[P1-11C]
[P1-10C]
[P1-11B]
[P1-11A]
[P1-12B]
[P1-12C]
[P1-13A]
+9AV
-9AV
+5V
+3V
IC701 NJM084V-TE1
IC702 NJM084V-TE1
IC708 TVHC14FTEL
IC710 TVHC126FTEL
D701 MA716-TX
D702 MA716-TX
D703 MA716-TX
D704 MA716-TX
D705 MA716-TX
D706 MA716-TX
D707 MA716-TX
D708 MA716-TX
D709 MA716-TX
(9) VIDEO_GAIN_AN5
(9) SYS_SC_PHASE_AN4
(9) SYS_H_PHASE_AN3
(9) SET_UP_AN2
(9) HUE_AN1
(9) C_GAIN_AN0
(9) SYS_SC_CORSE_1_P
(9) SYS_SC_CORSE_2_P
(9) RET_GND_P
IC703 C0JBAZ001777 74VHC541MTCX
R742 D1H84704A008
R743 D1H84704A008
AV_DV_CLK_5V
AV_DV_DAT_5V
AV_DV_RQ_5V
P1394_TX_5V
EVR_CLK_5V
EVR_DAT_5V
EVR_RF_LDH_5V
EVR_VIN_LDH_5V
[P2-15C] AV_DV_CLK
[P2-16A] AV_DV_DATA
[P2-16C] AV_DV_REQ
[P2-23A] P1394_TX
[P1-18B] EVR_CLK
[P1-18C] EVR_DATA
[P1-18A] EVR_RF_LD_H
[P1-19A] EVR_VIN_LD_H
IC704 C0JBAZ001777 74VHC541MTCX
R744 D1H84704A008
AV_EQ_CLK_5V
AV_EQ_TX_5V
ENC_CLK_5V
ENC_DATA_5V
AV_EQ_SDE_5V
RECI_5V
EDIT_MODE_5V
EQ_RX_L
[P1-17A] EQ_CLK
[P1-17B] EQ_DATA
[P2-20B] ENC_CLK
[P2-20C] ENC_DATA
[P1-17C] EQ_SDE
[P1-19B] RECI
[P1-19C] EDIT_MODE
IC710 TVHC126FTEL
R734 D1H84734A008
R738 D1H84734A008
IC705 TVHT541FTEL
DV_AV_DATA [P2-16B]
SYS_REV_H [P2-3A]
P1394_RX [P2-22C]
FM_FLAG [P2-15B]
LTC_CLK [P2-21C]
TC_CSYNC_L [P2-18A]
TC_VSYNC_L [P2-18B]
(9) AV_EQ_RX_5V
(9) DV_AV_DAT_5V
(5, 6) TAPE_REV_H
(3) P1394_RX_5V
(6) FM_FLAG_5V
(10) LTC_CLK_5V
(10) TC_CSYNC_L_5V
(10) TC_VSYNC_L_5V
IC705 TVHT541FTEL
IC706 TVHT574FTEL
IC709 TVHT04FTEL
R735 D1H84734A008
R739 D1H84734A008
AV_SYS_RD_L (9)
IC709 TVHT04FTEL
IC706 TVHT574FTEL
VLOCK_L [P2-12C]
VIDEO_IN_L [P2-13A]
BW_L [P2-13B]
NSTD_H [P2-13C]
YC_WIDE_L [P2-14A]
AV_DB_BUS[0-7] (11)
AV_DB_BUS[0-7]
AV_AB_BUS[0-15] (9)
AV_PORT_CS_L (9)
AV_SYS_WR_L (11)
IC651 TVHC32FTEL
IC552 TVHC32FTEL
IC707 TVHC574FTEL
R740 1000/J3
[P1-20A] POW_DOWN
[P1-20B] BPF_SEL
[P1-20C] EQ_RESET
R721 D1H84734A008
SYS_FRP [P2-14C]
SYS_OUT_FRM [P2-17C]
FR_PULSE [P2-3C]
SYS_FEND [P2-15A]
SERVO_LOCK_L [P2-3B]
(3, 6, 9) REC_FP
(6) OUT_FRM1
(5) CTL_PULSE
(5, 6, 9) FEND_SYS1
(9) SV_LOCK_L
IC708 TVHC14FTEL
IC709 TVHT04FTEL
IC703 C0JBAZ001777
IC704 C0JBAZ001777
IC707 TVHC574FTEL
IC710 TVHC126FTEL
IC708 TVHC14FTEL
IC705 TVHT541FTEL
IC706 TVHT574FTEL
IC709 TVHT04FTEL
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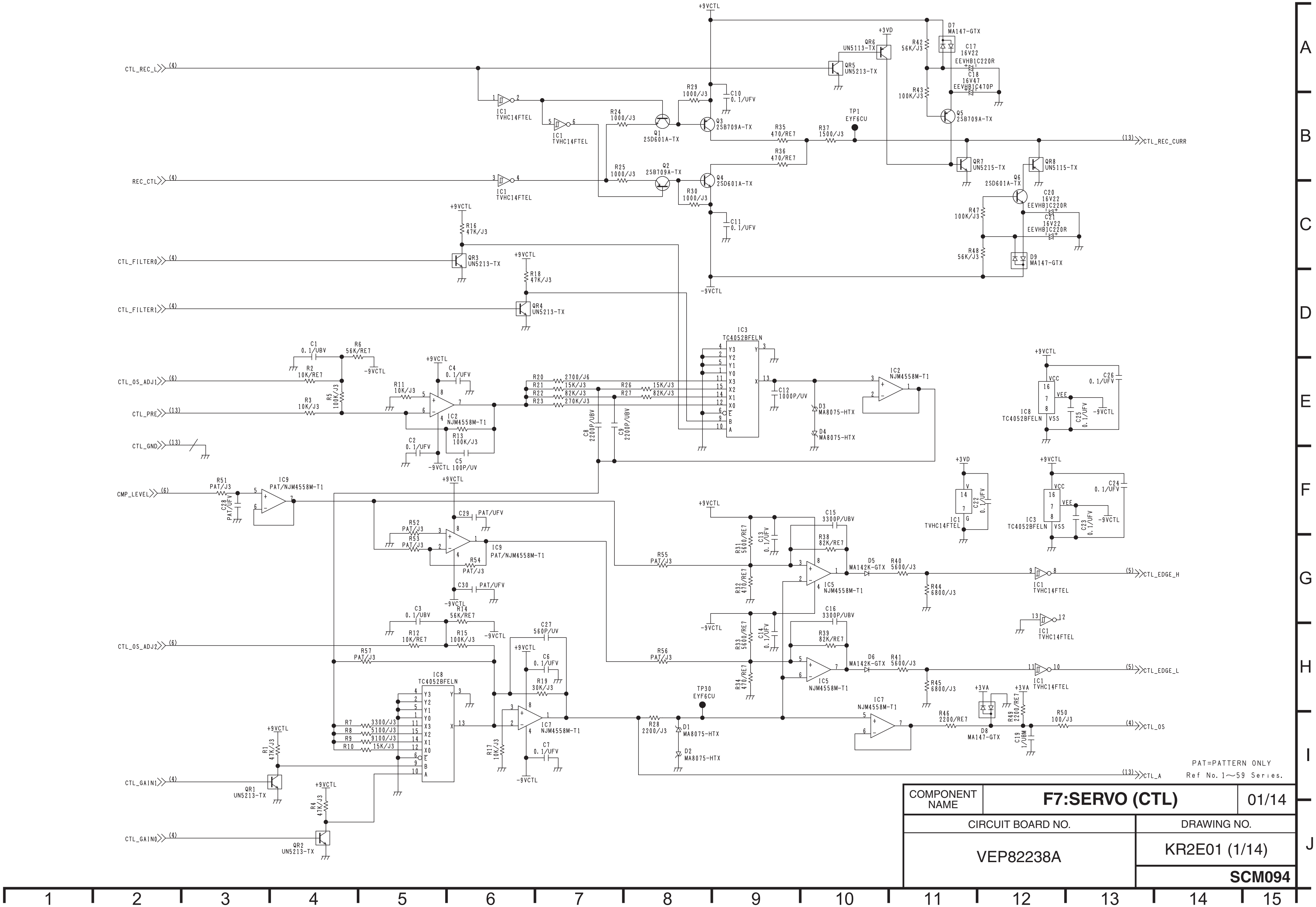
Ref No. 700 Series.

COMPONENT NAME	F6:SYSCON (AV)	12/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (12/13)	
	SCM092	

	AJ-D455P		
IC104 (M27C100115F1)	VSI3557A		
IC302 (M27C400110F1)	VSI3561A		
IC502 (M27C200115F)	VSI3563B		

COMPONENT NAME	**SYSCON**	13/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85314A	KR6T80 (13/13)	
	SCM093	



CTL_REC_L
REC_CTL
CTL_FILTER0
CTL_FILTER1
CTL_OS_ADJ1
CTL_PRE
CTL_GND
CMP_LEVEL
CTL_OS_ADJ2
CTL_GAIN1
CTL_GAIN0
CTL_REC_CURR
CTL_EDGE_H
CTL_EDGE_L
CTL_OS
CTL_A
+9VCTL
-9VCTL
+3VD
+3VA
IC1 TVHC14FTEL
IC2 NJM4558M-T1
IC3 TC4052BFELN
IC5 NJM4558M-T1
IC7 NJM4558M-T1
IC8 TC4052BFELN
IC9 PAT/NJM4558M-T1
Q1 2SD601A-TX
Q2 2SB709A-TX
Q3 2SB709A-TX
Q4 2SD601A-TX
Q5 2SB709A-TX
Q6 2SD601A-TX
QR1 UN5213-TX
QR2 UN5213-TX
QR3 UN5213-TX
QR4 UN5213-TX
QR5 UN5213-TX
QR6 UN5113-TX
QR7 UN5215-TX
QR8 UN5115-TX
D1 MA8075-HTX
D2 MA8075-HTX
D3 MA8075-HTX
D4 MA8075-HTX
D5 MA142K-GTX
D6 MA142K-GTX
D7 MA147-GTX
D8 MA147-GTX
D9 MA147-GTX
TP1 EYF6CU
TP30 EYF6CU
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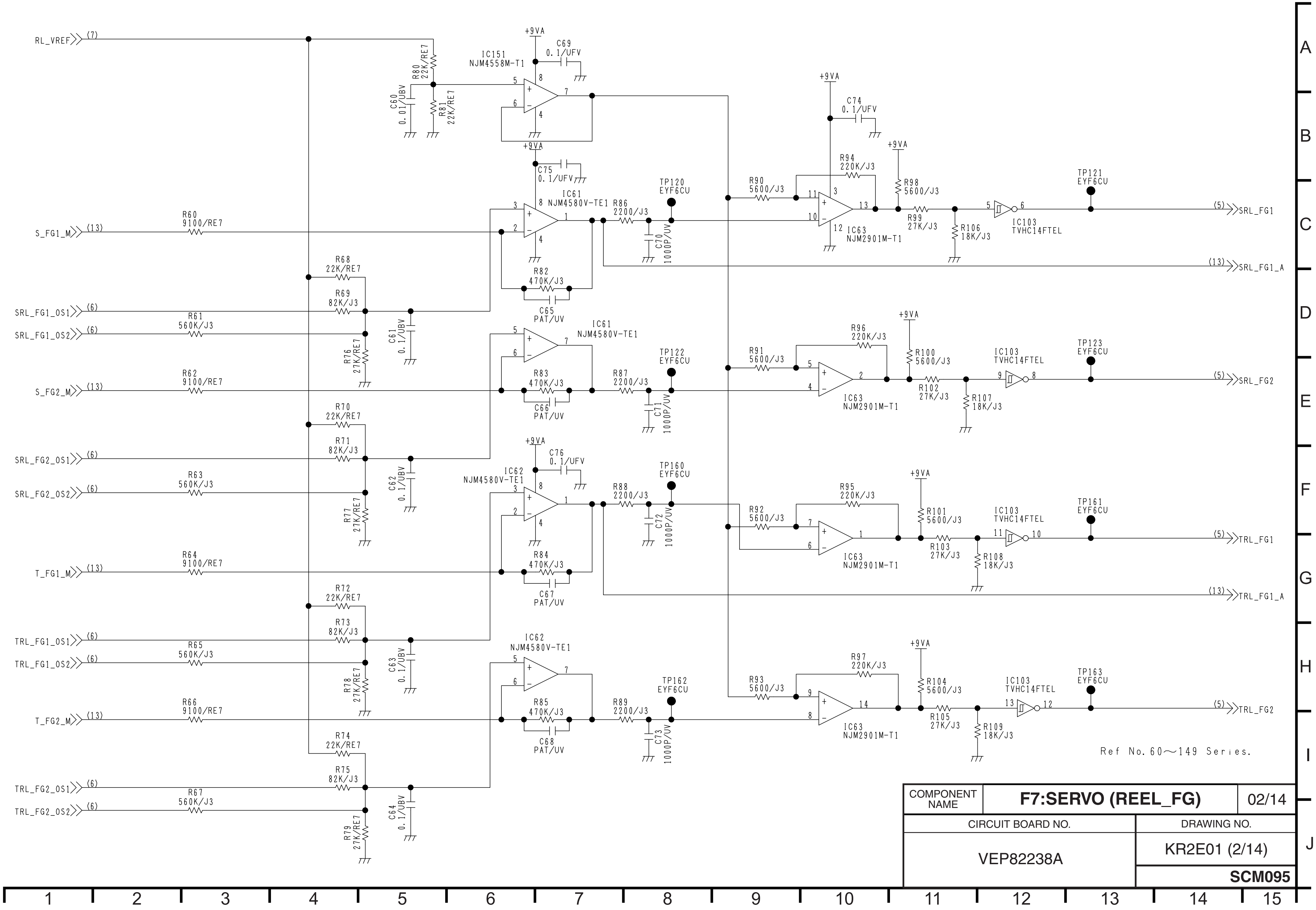
PAT=PATTERN ONLY

Ref No. 1～59 Series.

COMPONENT NAME	F7:SERVO (CTL)	01/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (1/14)	
	SCM094	


RL_VREF (7)
S_FG1_M (13)
SRL_FG1_OS1 (6)
SRL_FG1_OS2 (6)
S_FG2_M (13)
SRL_FG2_OS1 (6)
SRL_FG2_OS2 (6)
T_FG1_M (13)
TRL_FG1_OS1 (6)
TRL_FG1_OS2 (6)
T_FG2_M (13)
TRL_FG2_OS1 (6)
TRL_FG2_OS2 (6)
R80 22K/RE7
R81 22K/RE7
C60 0.01/UBV
+9VA
C69 0.1/UFV
IC151 NJM4558M-T1
C75 0.1/UFV
IC61 NJM4580V-TE1
R60 9100/RE7
R61 560K/J3
R62 9100/RE7
R63 560K/J3
R64 9100/RE7
R65 560K/J3
R66 9100/RE7
R67 560K/J3
R68 22K/RE7
R69 82K/J3
R70 22K/RE7
R71 82K/J3
R72 22K/RE7
R73 82K/J3
R74 22K/RE7
R75 82K/J3
R76 27K/RE7
R77 27K/RE7
R78 27K/RE7
R79 27K/RE7
C61 0.1/UBV
C62 0.1/UBV
C63 0.1/UBV
C64 0.1/UBV
R82 470K/J3
C65 PAT/UV
R83 470K/J3
C66 PAT/UV
R84 470K/J3
C67 PAT/UV
R85 470K/J3
C68 PAT/UV
C76 0.1/UFV
IC62 NJM4580V-TE1
R86 2200/J3
R87 2200/J3
R88 2200/J3
R89 2200/J3
C70 1000P/UV
C71 1000P/UV
C72 1000P/UV
C73 1000P/UV
TP120 EYF6CU
TP122 EYF6CU
TP160 EYF6CU
TP162 EYF6CU
C74 0.1/UFV
R90 5600/J3
R91 5600/J3
R92 5600/J3
R93 5600/J3
R94 220K/J3
R95 220K/J3
R96 220K/J3
R97 220K/J3
IC63 NJM2901M-T1
R98 5600/J3
R99 27K/J3
R100 5600/J3
R101 5600/J3
R102 27K/J3
R103 27K/J3
R104 5600/J3
R105 27K/J3
R106 18K/J3
R107 18K/J3
R108 18K/J3
R109 18K/J3
IC103 TVHC14FTEL
TP121 EYF6CU
TP123 EYF6CU
TP161 EYF6CU
TP163 EYF6CU
(5) SRL_FG1
(13) SRL_FG1_A
(5) SRL_FG2
(5) TRL_FG1
(13) TRL_FG1_A
(5) TRL_FG2
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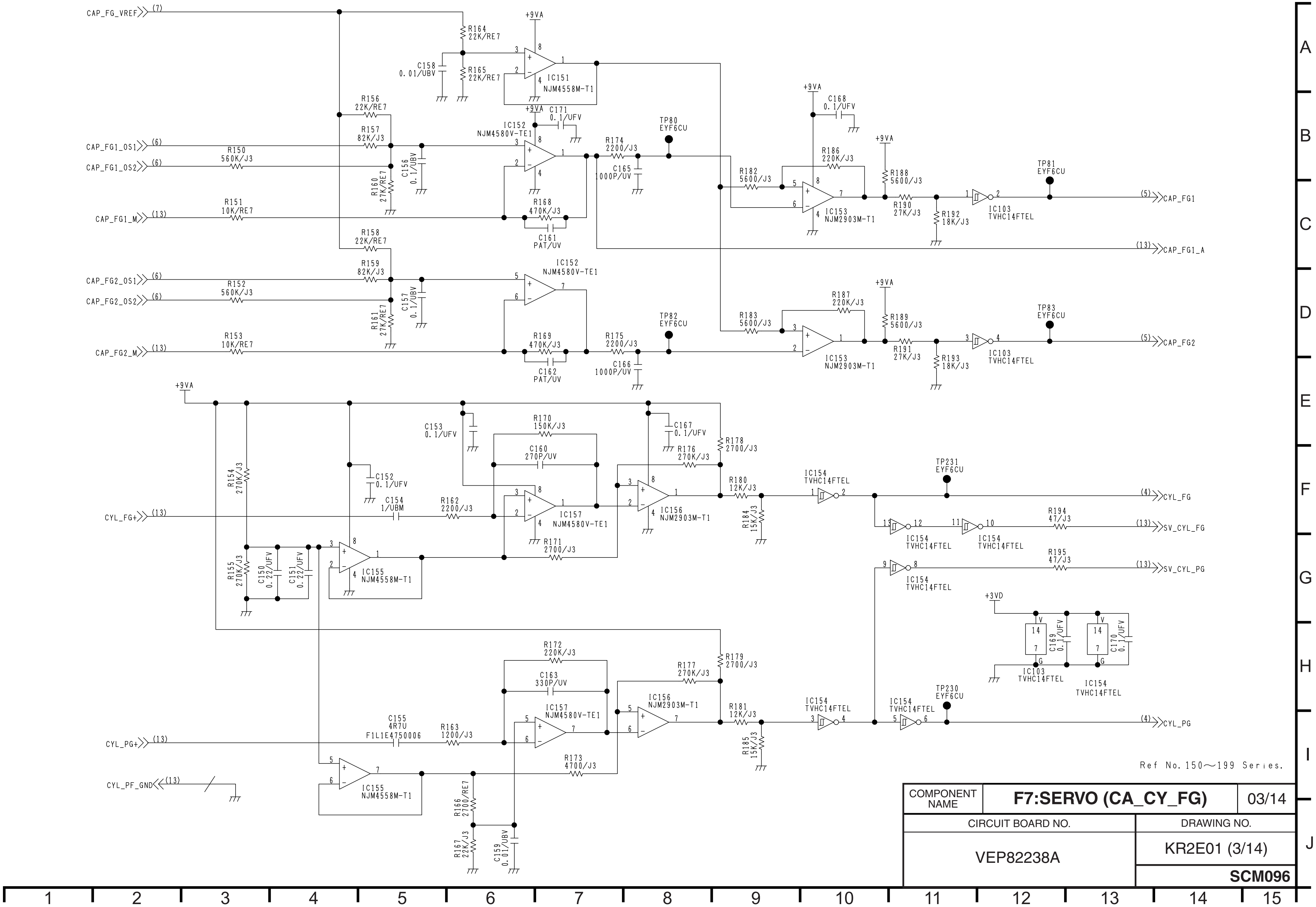
Ref No. 60〜149 Series.

COMPONENT NAME	F7:SERVO (REEL_FG)	02/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238A		KR2E01 (2/14)
		SCM095


CAP_FG_VREF (7)
R164 22K/RE7
+9VA
C158 0.01/UBV
R165 22K/RE7
IC151 NJM4558M-T1
R156 22K/RE7
+9VA
C171 0.1/UFV
IC152 NJM4580V-TE1
CAP_FG1_OS1 (6)
R157 82K/J3
R150 560K/J3
CAP_FG1_OS2 (6)
C156 0.1/UBV
R160 27K/RE7
TP80 EYF6CU
R174 2200/J3
C165 1000P/UV
CAP_FG1_M (13)
R151 10K/RE7
R168 470K/J3
C161 PAT/UV
+9VA
C168 0.1/UFV
R186 220K/J3
R182 5600/J3
IC153 NJM2903M-T1
+9VA
R188 5600/J3
R190 27K/J3
R192 18K/J3
TP81 EYF6CU
IC103 TVHC14FTEL
(5) CAP_FG1
(13) CAP_FG1_A
R158 22K/RE7
R159 82K/J3
IC152 NJM4580V-TE1
CAP_FG2_OS1 (6)
R152 560K/J3
CAP_FG2_OS2 (6)
C157 0.1/UBV
R161 27K/RE7
CAP_FG2_M (13)
R153 10K/RE7
R169 470K/J3
C162 PAT/UV
R175 2200/J3
TP82 EYF6CU
C166 1000P/UV
R187 220K/J3
R183 5600/J3
IC153 NJM2903M-T1
+9VA
R189 5600/J3
R191 27K/J3
R193 18K/J3
TP83 EYF6CU
IC103 TVHC14FTEL
(5) CAP_FG2
+9VA
C153 0.1/UFV
R170 150K/J3
C160 270P/UV
C167 0.1/UFV
R176 270K/J3
R178 2700/J3
R154 270K/J3
C152 0.1/UFV
C154 1/UBM
R162 2200/J3
IC157 NJM4580V-TE1
IC156 NJM2903M-T1
R180 12K/J3
R184 15K/J3
IC154 TVHC14FTEL
TP231 EYF6CU
(4) CYL_FG
CYL_FG+ (13)
R171 2700/J3
IC154 TVHC14FTEL
IC154 TVHC14FTEL
R194 47/J3
(13) SV_CYL_FG
R155 270K/J3
C150 0.22/UFV
C151 0.22/UFV
IC155 NJM4558M-T1
R195 47/J3
(13) SV_CYL_PG
IC154 TVHC14FTEL
+3VD
C169 0.1/UFV
C170 0.1/UFV
IC103 TVHC14FTEL
IC154 TVHC14FTEL
R179 2700/J3
R172 220K/J3
C163 330P/UV
R177 270K/J3
IC156 NJM2903M-T1
IC157 NJM4580V-TE1
C155 4R7U F1L1E4750006
R163 1200/J3
R181 12K/J3
R185 15K/J3
IC154 TVHC14FTEL
IC154 TVHC14FTEL
TP230 EYF6CU
(4) CYL_PG
CYL_PG+ (13)
R173 4700/J3
IC155 NJM4558M-T1
CYL_PF_GND (13)
R166 2700/RE7
R167 22K/J3
C159 0.01/UBV
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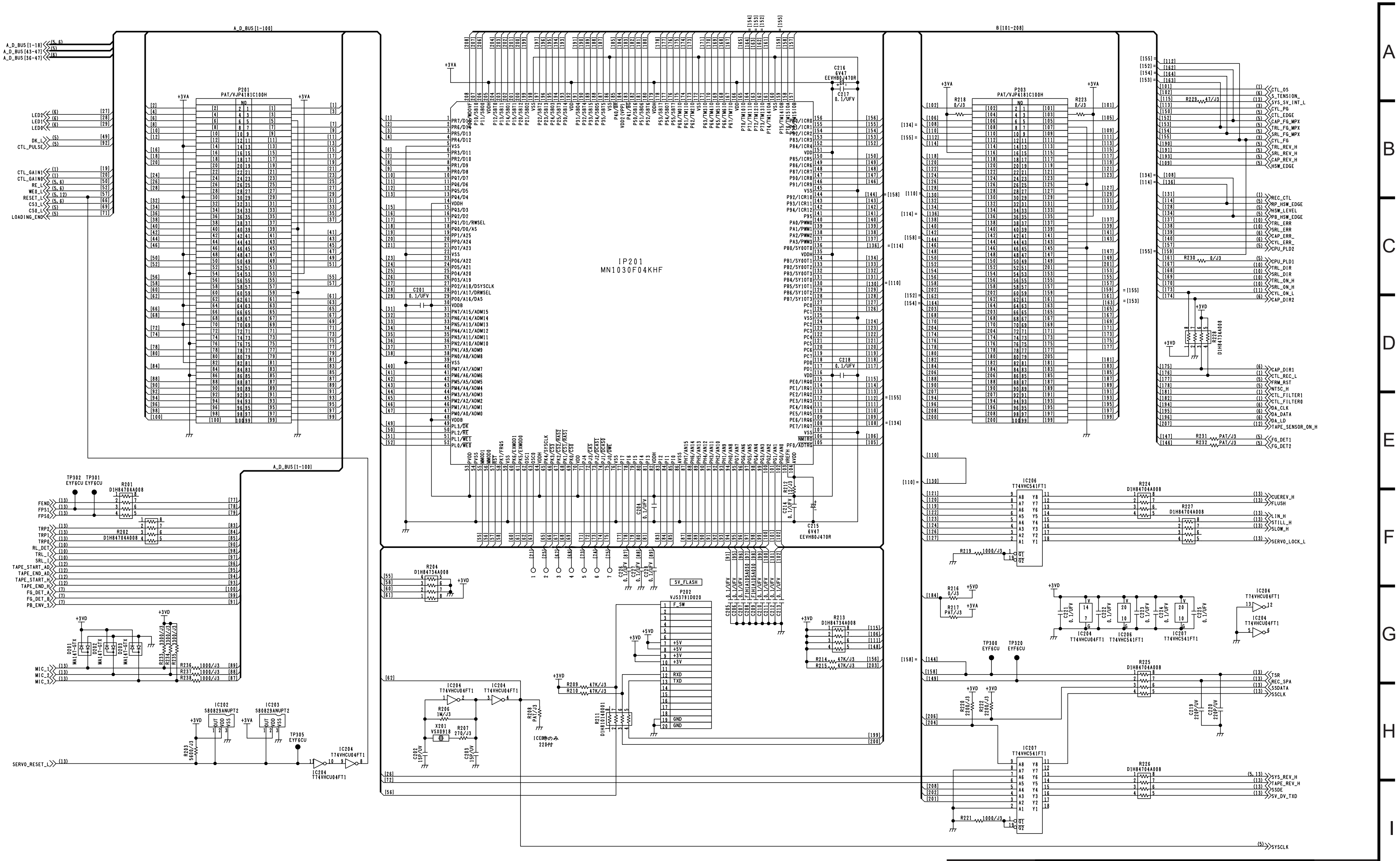
Ref No.150～199 Series.

COMPONENT NAME	F7:SERVO (CA_CY_FG)	03/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (3/14)	
	SCM096	


A_D_BUS[1-100]
B[101-208]
P201
PAT/VJP4181C100H
P203
PAT/VJP4181C100H
IP201
MN1030F04KHF
P202
VJS3791D020
SV_FLASH
IC202
S80829ANUPT2
IC203
S80829ANUPT2
IC204
T74VHCU04FT1
IC206
T74VHC541FT1
IC207
T74VHC541FT1
X201
VSX0918
R201
D1H84704A008
R202
D1H84704A008
R204
D1H84734A008
R213
D1H84734A008
R224
D1H84704A008
R225
D1H84704A008
R226
D1H84704A008
R227
D1H84704A008
R228
D1H84704A008
C215
6V47
EEVHB0J470R
C216
6V47
EEVHB0J470R
ICE時のみ
220付
SERVO_RESET_L
SYSCLK
+3VA
+3VD
+5VD
A
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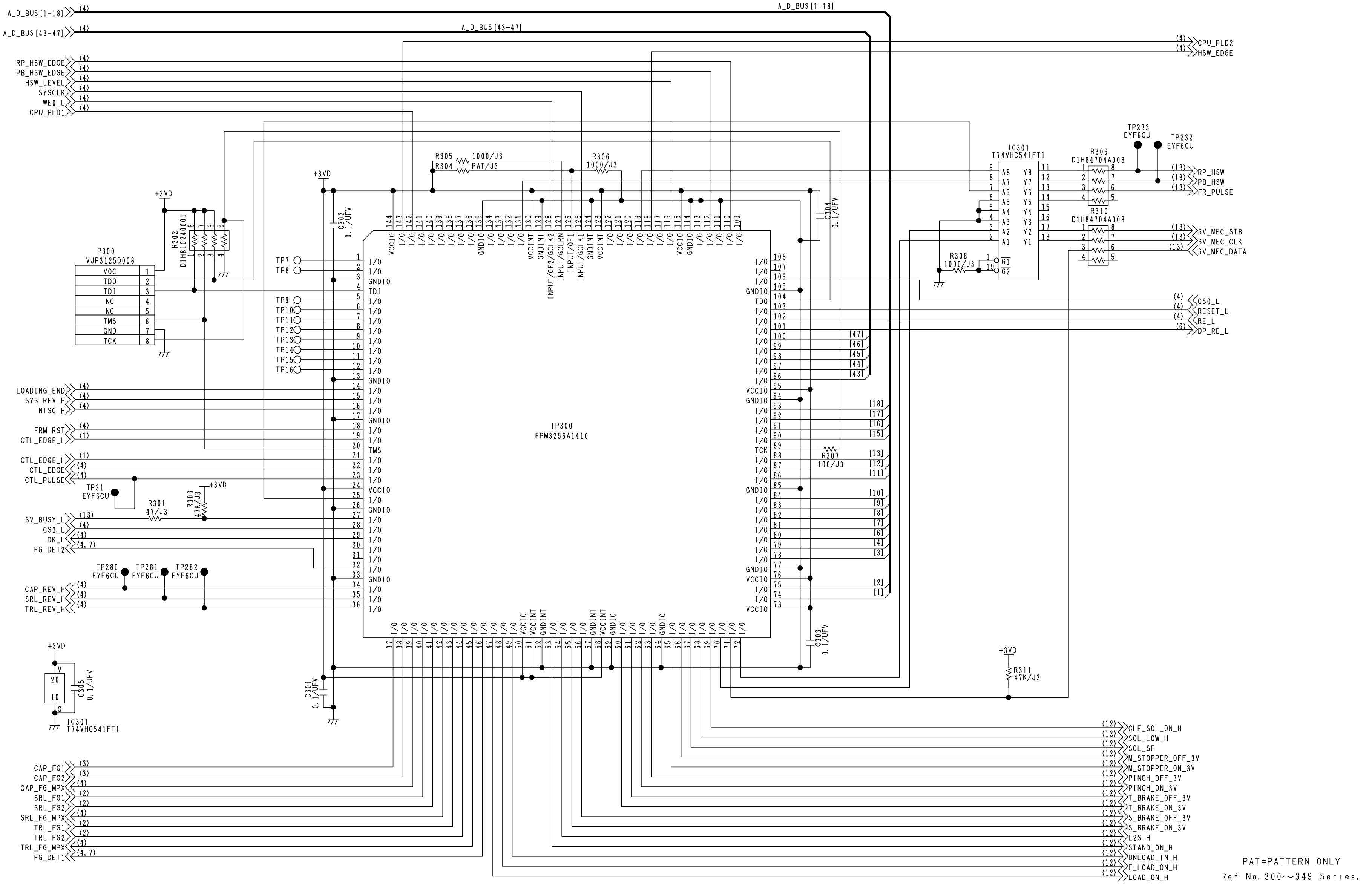
PAT=PATTERN ONLY
Ref No. 200～299 Series.

COMPONENT NAME	F7:SERVO (CPU)	04/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (4/14)	
	SCM097	


A_D_BUS[1-18]
A_D_BUS[43-47]
RP_HSW_EDGE
PB_HSW_EDGE
HSW_LEVEL
SYSCLK
WE0_L
CPU_PLD1
CPU_PLD2
HSW_EDGE
P300
VJP3125D008
VDC
TDO
TDI
NC
NC
TMS
GND
TCK
R302
D1H810240001
+3VD
C302
0.1/UFV
C304
0.1/UFV
R305 1000/J3
R304 PAT/J3
R306 1000/J3
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP14
TP15
TP16
IP300
EPM3256A1410
INPUT/OE2/GCLK2
INPUT/GCLRN
INPUT/OE1
INPUT/GCLK1
LOADING_END
SYS_REV_H
NTSC_H
FRM_RST
CTL_EDGE_L
CTL_EDGE_H
CTL_EDGE
CTL_PULSE
TP31
EYF6CU
R301 47/J3
R303 47K/J3
SV_BUSY_L
CS3_L
DK_L
FG_DET2
TP280
TP281
TP282
CAP_REV_H
SRL_REV_H
TRL_REV_H
IC301
T74VHC541FT1
C305
0.1/UFV
C301
0.1/UFV
C303
0.1/UFV
R307
100/J3
TP233
EYF6CU
TP232
EYF6CU
R309
D1H84704A008
R310
D1H84704A008
R308
1000/J3
RP_HSW
PB_HSW
FR_PULSE
SV_MEC_STB
SV_MEC_CLK
SV_MEC_DATA
CS0_L
RESET_L
RE_L
DP_RE_L
R311
47K/J3
CAP_FG1
CAP_FG2
CAP_FG_MPX
SRL_FG1
SRL_FG2
SRL_FG_MPX
TRL_FG1
TRL_FG2
TRL_FG_MPX
FG_DET1
CLE_SOL_ON_H
SOL_LOW_H
SOL_SF
M_STOPPER_OFF_3V
M_STOPPER_ON_3V
PINCH_OFF_3V
PINCH_ON_3V
T_BRAKE_OFF_3V
T_BRAKE_ON_3V
S_BRAKE_OFF_3V
S_BRAKE_ON_3V
L2S_H
STAND_ON_H
UNLOAD_IN_H
F_LOAD_ON_H
LOAD_ON_H
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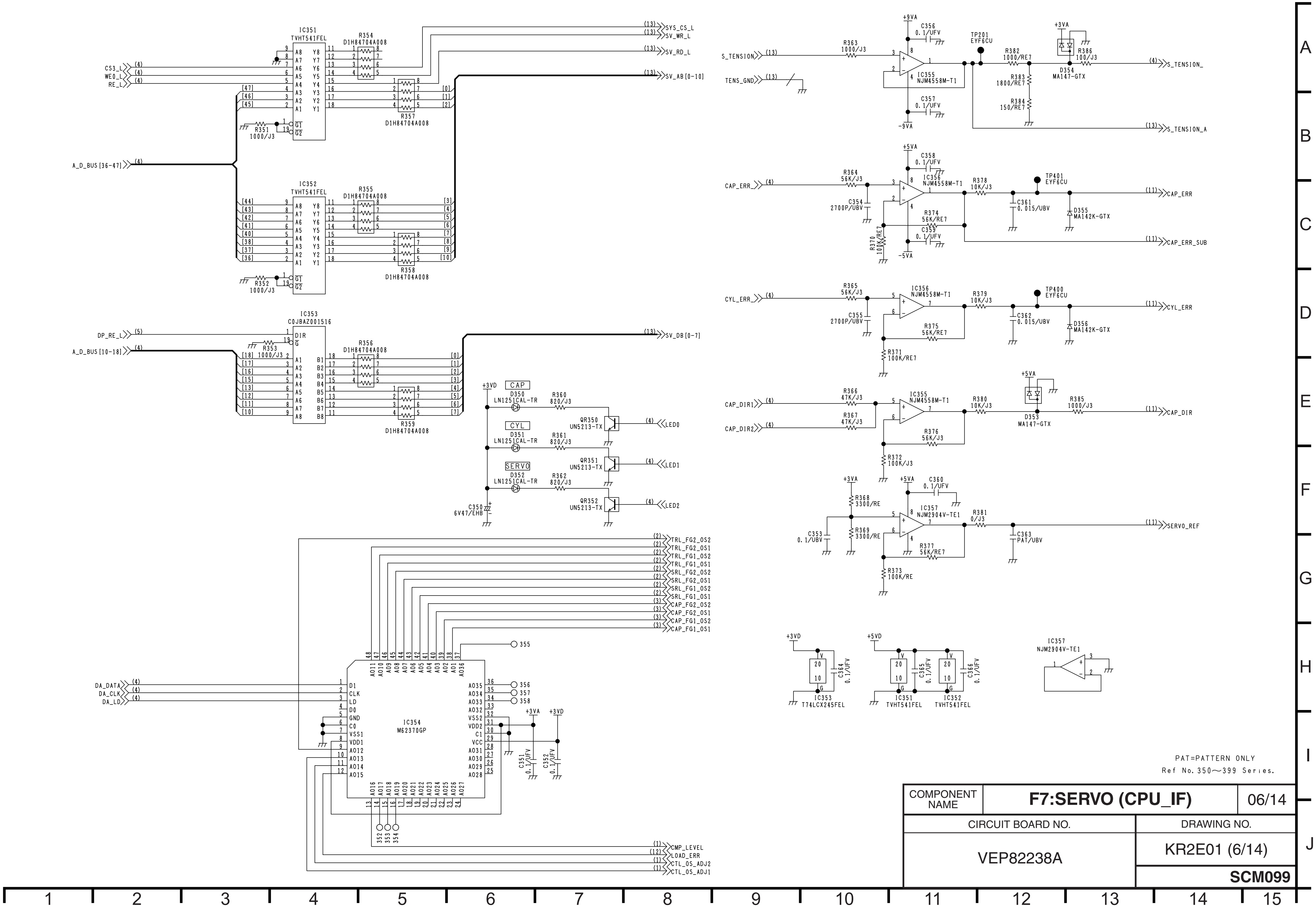
PAT=PATTERN ONLY
Ref No. 300～349 Series.

COMPONENT NAME	F7:SERVO (PLD)	05/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (5/14)	
	SCM098	


IC351
TVHT541FEL
R354
D1H84704A008
R357
D1H84704A008
R351
1000/J3
CS3_L
WE0_L
RE_L
A_D_BUS[36-47]
SYS_CS_L
SV_WR_L
SV_RD_L
SV_AB[0-10]
IC352
TVHT541FEL
R355
D1H84704A008
R358
D1H84704A008
R352
1000/J3
IC353
C0JBAZ001516
R353
1000/J3
R356
D1H84704A008
R359
D1H84704A008
DP_RE_L
A_D_BUS[10-18]
SV_DB[0-7]
+3VD
CAP
D350
LN1251CAL-TR
R360
820/J3
QR350
UN5213-TX
LED0
CYL
D351
LN1251CAL-TR
R361
820/J3
QR351
UN5213-TX
LED1
SERVO
D352
LN1251CAL-TR
R362
820/J3
QR352
UN5213-TX
LED2
C350
6V47/EHB
TRL_FG2_OS2
TRL_FG2_OS1
TRL_FG1_OS2
TRL_FG1_OS1
SRL_FG2_OS2
SRL_FG2_OS1
SRL_FG1_OS2
SRL_FG1_OS1
CAP_FG2_OS2
CAP_FG2_OS1
CAP_FG1_OS2
CAP_FG1_OS1
355
356
357
358
DA_DATA
DA_CLK
DA_LD
IC354
M62370GP
+3VA
+3VD
C351
0.1/UFV
C352
0.1/UFV
352
353
354
CMP_LEVEL
LOAD_ERR
CTL_OS_ADJ2
CTL_OS_ADJ1
+9VA
C356
0.1/UFV
TP201
EYF6CU
S_TENSION
TENS_GND
R363
1000/J3
IC355
NJM4558M-T1
C357
0.1/UFV
-9VA
R382
1000/RE7
R383
1800/RE7
R384
150/RE7
+3VA
R386
100/J3
D354
MA147-GTX
S_TENSION_
S_TENSION_A
+5VA
C358
0.1/UFV
R364
56K/J3
CAP_ERR
IC356
NJM4558M-T1
R378
10K/J3
TP401
EYF6CU
C354
2700P/UBV
R374
56K/RE7
C359
0.1/UFV
R370
100K/RE7
-5VA
C361
0.015/UBV
D355
MA142K-GTX
CAP_ERR_SUB
R365
56K/J3
CYL_ERR
IC356
NJM4558M-T1
R379
10K/J3
TP400
EYF6CU
C355
2700P/UBV
R375
56K/RE7
R371
100K/RE7
C362
0.015/UBV
D356
MA142K-GTX
+5VA
R366
47K/J3
CAP_DIR1
CAP_DIR2
R367
47K/J3
IC355
NJM4558M-T1
R380
10K/J3
D353
MA147-GTX
R385
1000/J3
R376
56K/J3
R372
100K/J3
CAP_DIR
+3VA
R368
3300/RE
+5VA
C360
0.1/UFV
IC357
NJM2904V-TE1
R381
0/J3
C353
0.1/UBV
R369
3300/RE
R377
56K/RE7
C363
PAT/UBV
R373
100K/RE
SERVO_REF
+3VD
IC353
T74LCX245FEL
C364
0.1/UFV
+5VD
IC351
TVHT541FEL
C365
0.1/UFV
IC352
TVHT541FEL
C366
0.1/UFV
IC357
NJM2904V-TE1
A
B
C
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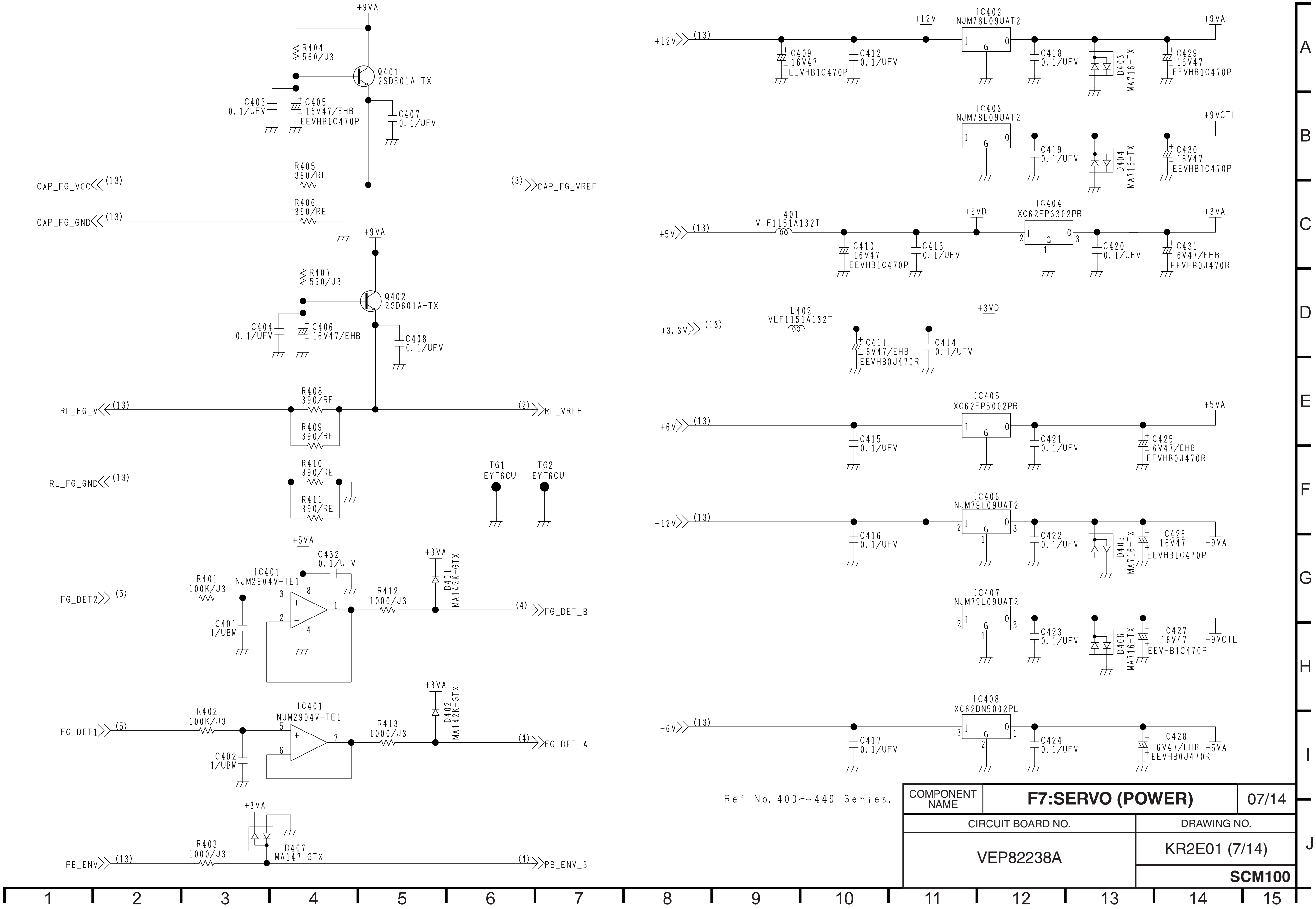
PAT=PATTERN ONLY
Ref No. 350〜399 Series.

COMPONENT NAME	**F7:SERVO (CPU_IF)**	06/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (6/14)	
	SCM099	


+9VA
R404
560/J3
Q401
2SD601A-TX
C403
0.1/UFV
C405
16V47/EHB
EEVHB1C470P
C407
0.1/UFV
R405
390/RE
CAP_FG_VCC
(13)
(3)
CAP_FG_VREF
R406
390/RE
CAP_FG_GND
(13)
+9VA
R407
560/J3
Q402
2SD601A-TX
C404
0.1/UFV
C406
16V47/EHB
C408
0.1/UFV
R408
390/RE
RL_FG_V
(13)
(2)
RL_VREF
R409
390/RE
R410
390/RE
RL_FG_GND
(13)
R411
390/RE
TG1
EYF6CU
TG2
EYF6CU
+5VA
C432
0.1/UFV
+3VA
D401
MA142K-GTX
IC401
NJM2904V-TE1
R401
100K/J3
FG_DET2
(5)
C401
1/UBM
R412
1000/J3
(4)
FG_DET_B
+3VA
D402
MA142K-GTX
IC401
NJM2904V-TE1
R402
100K/J3
FG_DET1
(5)
C402
1/UBM
R413
1000/J3
(4)
FG_DET_A
+3VA
R403
1000/J3
PB_ENV
(13)
D407
MA147-GTX
(4)
PB_ENV_3
+12V
(13)
C409
16V47
EEVHB1C470P
C412
0.1/UFV
+12V
IC402
NJM78L09UAT2
C418
0.1/UFV
D403
MA716-TX
C429
16V47
EEVHB1C470P
+9VA
IC403
NJM78L09UAT2
C419
0.1/UFV
D404
MA716-TX
C430
16V47
EEVHB1C470P
+9VCTL
+5V
(13)
L401
VLF1151A132T
C410
16V47
EEVHB1C470P
C413
0.1/UFV
+5VD
IC404
XC62FP3302PR
C420
0.1/UFV
C431
6V47/EHB
EEVHB0J470R
+3VA
+3.3V
(13)
L402
VLF1151A132T
C411
6V47/EHB
EEVHB0J470R
C414
0.1/UFV
+3VD
+6V
(13)
C415
0.1/UFV
IC405
XC62FP5002PR
C421
0.1/UFV
C425
6V47/EHB
EEVHB0J470R
+5VA
-12V
(13)
C416
0.1/UFV
IC406
NJM79L09UAT2
C422
0.1/UFV
D405
MA716-TX
C426
16V47
EEVHB1C470P
-9VA
IC407
NJM79L09UAT2
C423
0.1/UFV
D406
MA716-TX
C427
16V47
EEVHB1C470P
-9VCTL
-6V
(13)
C417
0.1/UFV
IC408
XC62DN5002PL
C424
0.1/UFV
C428
6V47/EHB
EEVHB0J470R
-5VA
A
B
C
D
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F
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I
J
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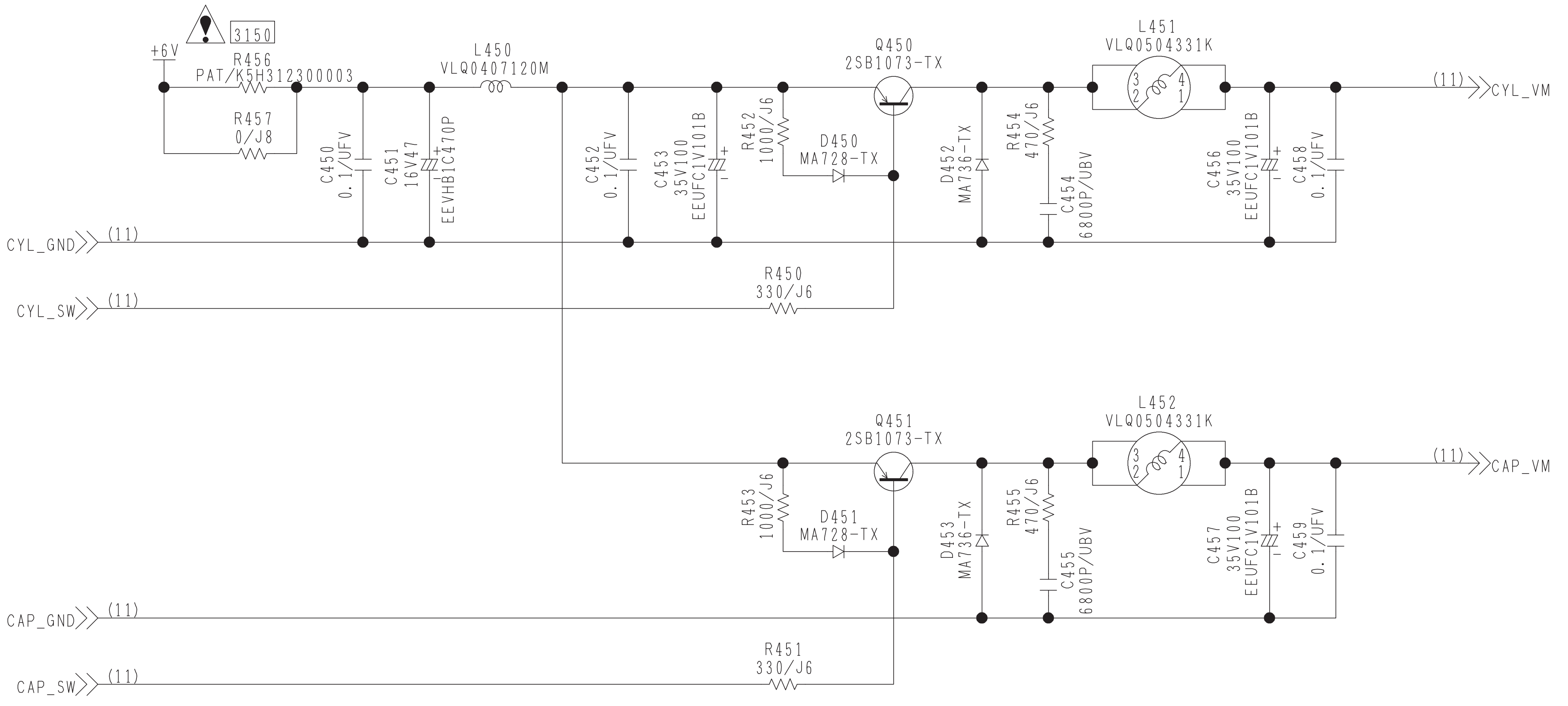
Ref No.400〜449 Series.

COMPONENT NAME	F7:SERVO (POWER)		07/14
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82238A		KR2E01 (7/14)	
		SCM100	


3150
+6V
R456
PAT/K5H312300003
R457
0/J8
C450
0.1/UFV
C451
16V47
EEVHB1C470P
L450
VLQ0407120M
C452
0.1/UFV
C453
35V100
EEUFC1V101B
R452
1000/J6
D450
MA728-TX
Q450
2SB1073-TX
D452
MA736-TX
R454
470/J6
C454
6800P/UBV
L451
VLQ0504331K
C456
35V100
EEUFC1V101B
C458
0.1/UFV
(11)
CYL_VM
CYL_GND
(11)
R450
330/J6
CYL_SW
(11)
Q451
2SB1073-TX
R453
1000/J6
D451
MA728-TX
D453
MA736-TX
R455
470/J6
C455
6800P/UBV
L452
VLQ0504331K
C457
35V100
EEUFC1V101B
C459
0.1/UFV
(11)
CAP_VM
CAP_GND
(11)
R451
330/J6
CAP_SW
(11)
A
B
C
D
E
F
G
H
I
J
1
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6
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PAT=PATTERN ONLY

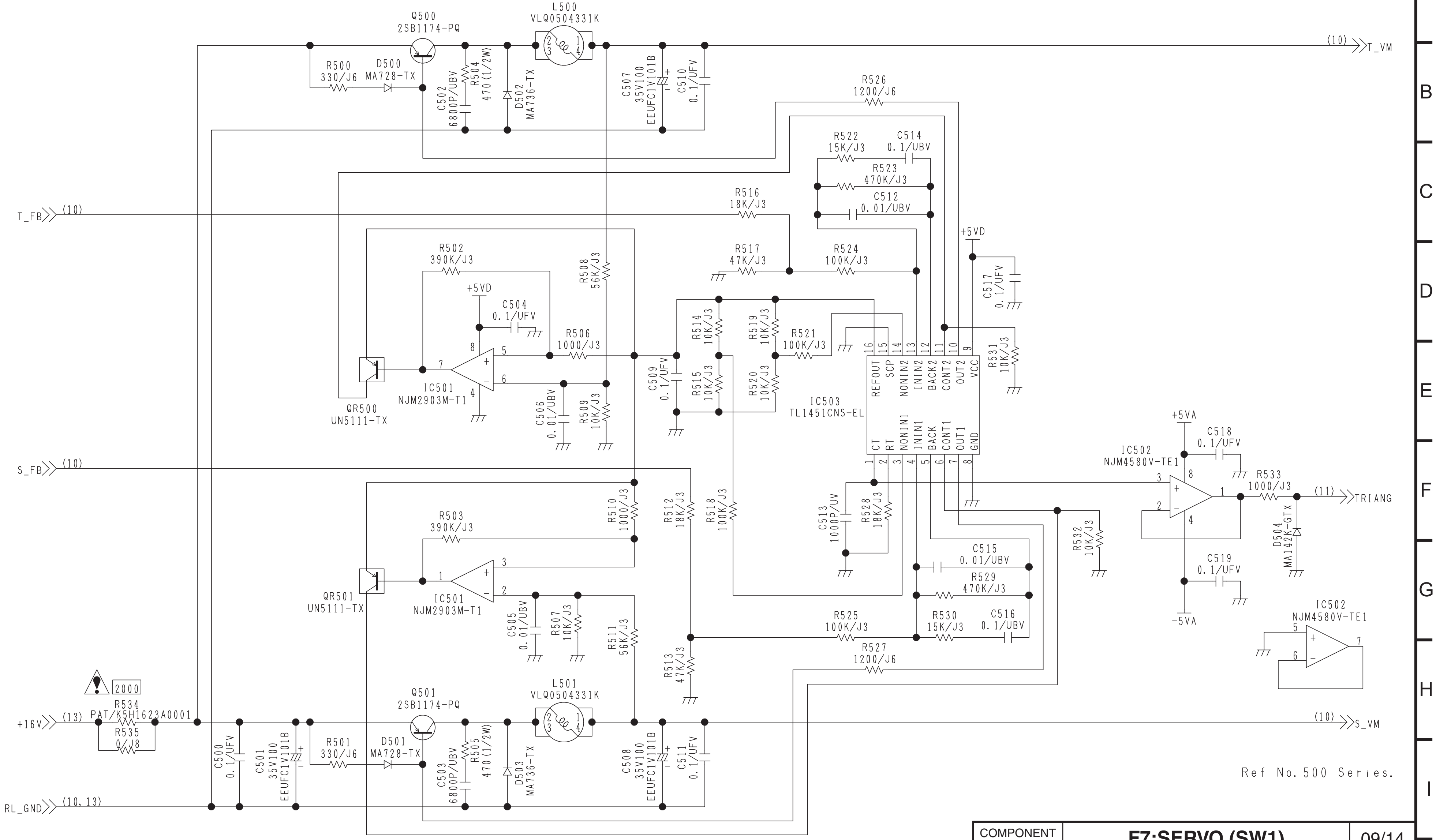
Ref No.450 Series.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

⚠ の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

COMPONENT NAME	**F7:SERVO (SW2)**		08/14
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82238A		KR2E01 (8/14)	
		SCM101	

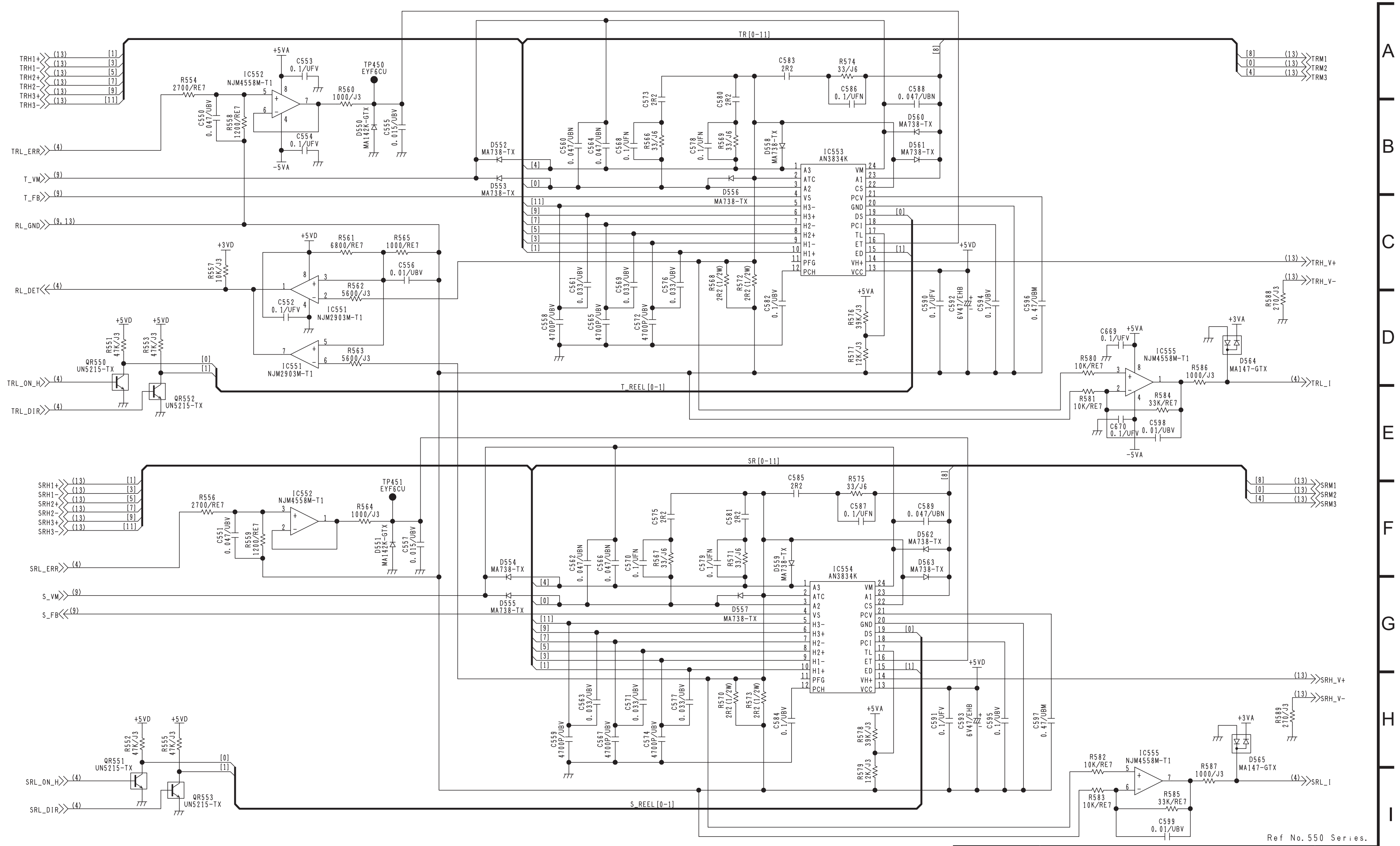

Q500
2SB1174-PQ
L500
VLQ0504331K
(10)
T_VM
R500
330/J6
D500
MA728-TX
C502
6800P/UBV
R504
470(1/2W)
D502
MA736-TX
C507
35V100
EEUFC1V101B
C510
0.1/UFV
R526
1200/J6
R522
15K/J3
C514
0.1/UBV
R523
470K/J3
C512
0.01/UBV
T_FB
R516
18K/J3
+5VD
R502
390K/J3
R508
56K/J3
R517
47K/J3
R524
100K/J3
C517
0.1/UFV
C504
0.1/UFV
R506
1000/J3
R514
10K/J3
R519
10K/J3
R521
100K/J3
R531
10K/J3
REFOUT
SCP
NONIN2
ININ2
BACK2
CONT2
OUT2
VCC
QR500
UN5111-TX
IC501
NJM2903M-T1
C506
0.01/UBV
R509
10K/J3
C509
0.1/UFV
R515
10K/J3
R520
10K/J3
IC503
TL1451CNS-EL
CT
RT
NONIN1
ININ1
BACK
CONT1
OUT1
GND
+5VA
C518
0.1/UFV
IC502
NJM4580V-TE1
R533
1000/J3
(11)
TRIANG
S_FB
R510
1000/J3
R512
18K/J3
R518
100K/J3
C513
1000P/UV
R528
18K/J3
R532
10K/J3
D504
MA142K-GTX
R503
390K/J3
C515
0.01/UBV
R529
470K/J3
C519
0.1/UFV
QR501
UN5111-TX
IC501
NJM2903M-T1
C505
0.01/UBV
R507
10K/J3
R511
56K/J3
R525
100K/J3
R530
15K/J3
C516
0.1/UBV
-5VA
IC502
NJM4580V-TE1
R513
47K/J3
R527
1200/J6
2000
R534
PAT/K5H1623A0001
Q501
2SB1174-PQ
L501
VLQ0504331K
+16V
(13)
R535
0/J8
C500
0.1/UFV
C501
35V100
EEUFC1V101B
R501
330/J6
D501
MA728-TX
C503
6800P/UBV
R505
470(1/2W)
D503
MA736-TX
C508
35V100
EEUFC1V101B
C511
0.1/UFV
S_VM
RL_GND
(10,13)
Ref No.500 Series.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

COMPONENT NAME	F7:SERVO (SW1)	09/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (9/14)	
	SCM102	


TRH1+
TRH1-
TRH2+
TRH2-
TRH3+
TRH3-
TRL_ERR
T_VM
T_FB
RL_GND
RL_DET
TRL_ON_H
TRL_DIR
TR[0-11]
T_REEL[0-1]
TRM1
TRM2
TRM3
TRH_V+
TRH_V-
TRL_I
SRH1+
SRH1-
SRH2+
SRH2-
SRH3+
SRH3-
SRL_ERR
S_VM
S_FB
SRL_ON_H
SRL_DIR
SR[0-11]
S_REEL[0-1]
SRM1
SRM2
SRM3
SRH_V+
SRH_V-
SRL_I
IC552 NJM4558M-T1
IC551 NJM2903M-T1
IC553 AN3834K
IC554 AN3834K
IC555 NJM4558M-T1
TP450 EYF6CU
TP451 EYF6CU
R554 2700/RE7
R558 1200/RE7
C550 0.047/UBV
C553 0.1/UFV
C554 0.1/UFV
R560 1000/J3
D550 MA142K-GTX
C555 0.015/UBV
R557 10K/J3
R561 6800/RE7
R565 1000/RE7
C556 0.01/UBV
R562 5600/J3
R563 5600/J3
C552 0.1/UFV
R551 47K/J3
R553 47K/J3
QR550 UN5215-TX
QR552 UN5215-TX
D552 MA738-TX
D553 MA738-TX
D556 MA738-TX
D558 MA738-TX
D560 MA738-TX
D561 MA738-TX
C560 0.047/UBN
C564 0.047/UBN
C568 0.1/UFN
R566 33/J6
C573 2R2
C578 0.1/UFN
C580 2R2
R569 33/J6
C583 2R2
R574 33/J6
C586 0.1/UFN
C588 0.047/UBN
C561 0.033/UBV
C569 0.033/UBV
C576 0.033/UBV
C558 4700P/UBV
C565 4700P/UBV
C572 4700P/UBV
R568 2R2(1/2W)
R572 2R2(1/2W)
C582 0.1/UBV
R576 39K/J3
R577 12K/J3
C590 0.1/UFV
C592 6V47/EHB
C594 0.1/UBV
C596 0.47/UBM
R588 270/J3
C669 0.1/UFV
R580 10K/RE7
R581 10K/RE7
R584 33K/RE7
R586 1000/J3
D564 MA147-GTX
C670 0.1/UFV
C598 0.01/UBV
R556 2700/RE7
R559 1200/RE7
C551 0.047/UBV
R564 1000/J3
D551 MA142K-GTX
C557 0.015/UBV
R552 47K/J3
R555 47K/J3
QR551 UN5215-TX
QR553 UN5215-TX
D554 MA738-TX
D555 MA738-TX
D557 MA738-TX
D559 MA738-TX
D562 MA738-TX
D563 MA738-TX
C562 0.047/UBN
C566 0.047/UBN
C570 0.1/UFN
R567 33/J6
C575 2R2
C579 0.1/UFN
C581 2R2
R571 33/J6
C585 2R2
R575 33/J6
C587 0.1/UFN
C589 0.047/UBN
C563 0.033/UBV
C571 0.033/UBV
C577 0.033/UBV
C559 4700P/UBV
C567 4700P/UBV
C574 4700P/UBV
R570 2R2(1/2W)
R573 2R2(1/2W)
C584 0.1/UBV
R578 39K/J3
R579 12K/J3
C591 0.1/UFV
C593 6V47/EHB
C595 0.1/UBV
C597 0.47/UBM
R589 270/J3
R582 10K/RE7
R583 10K/RE7
R585 33K/RE7
R587 1000/J3
D565 MA147-GTX
C599 0.01/UBV
+5VA
-5VA
+3VD
+5VD
+3VA
A3 ATC A2 VS H3- H3+ H2- H2+ H1- H1+ PFG PCH
VM A1 CS PCV GND DS PCI TL ET ED VH+ VCC
A
B
C
D
E
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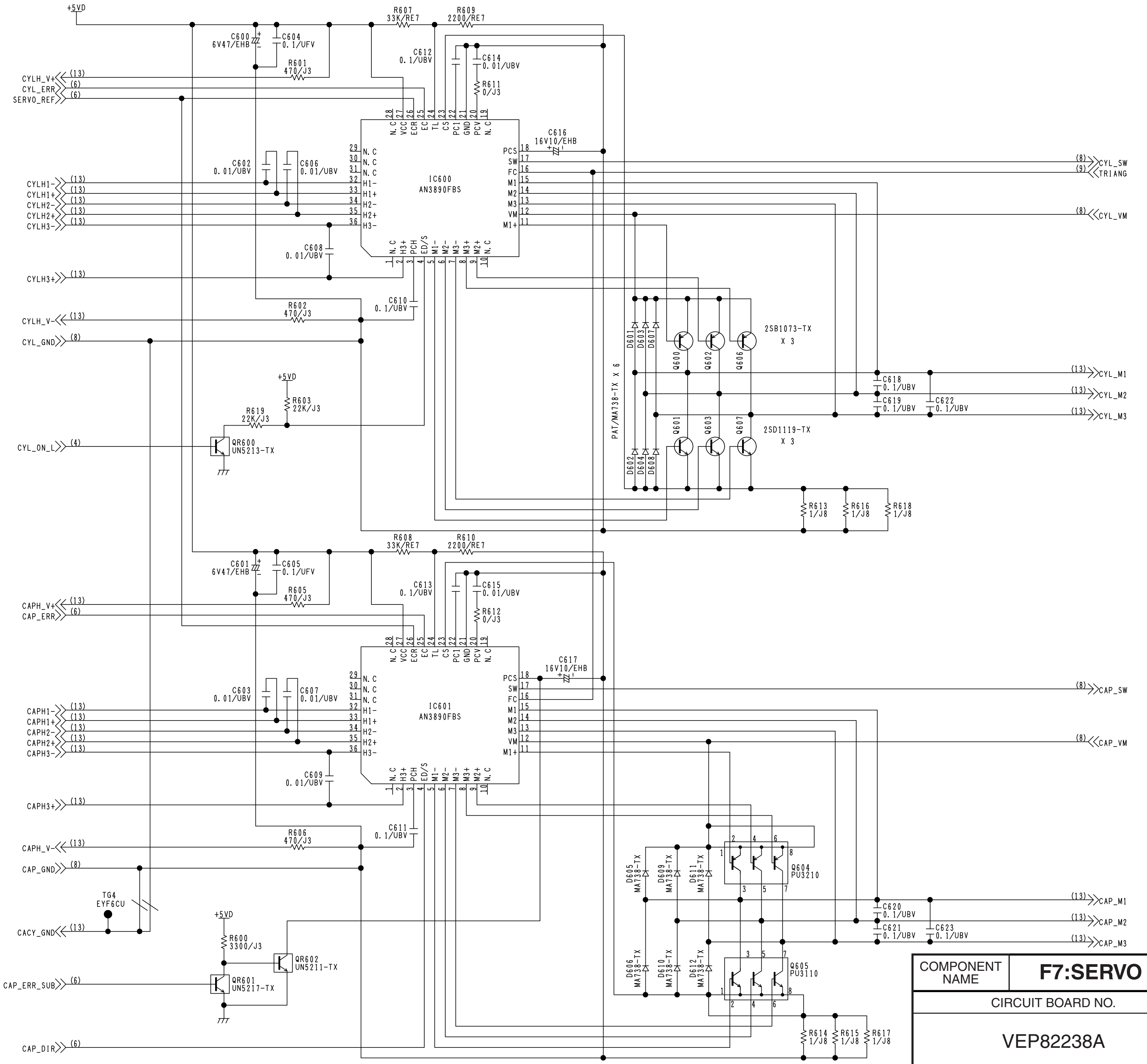
Ref No. 550 Series.

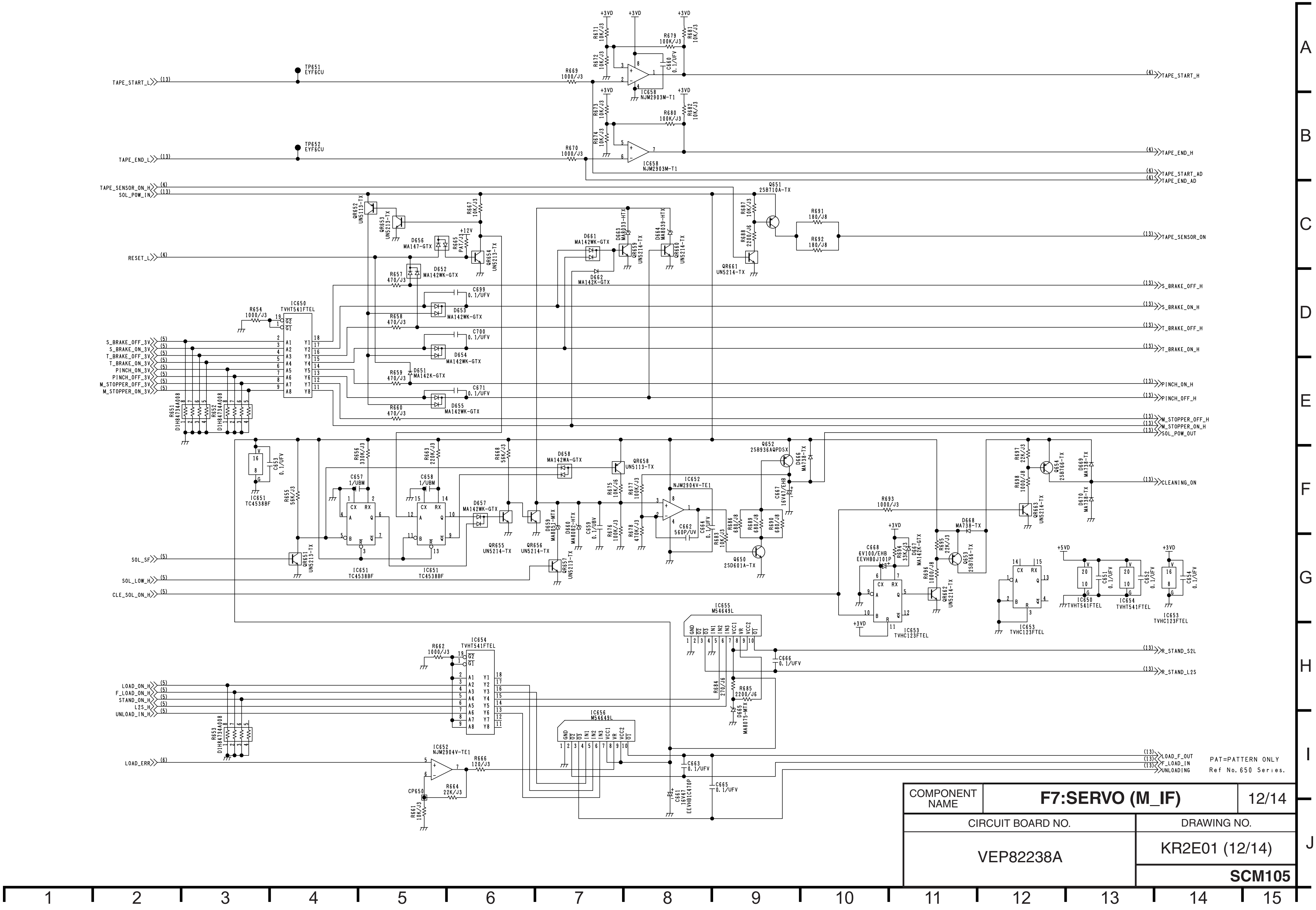
COMPONENT NAME	F7:SERVO (RL_DRV)	10/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01(10/14)	
	SCM103	



+5VD
R607 33K/RE7
R609 2200/RE7
C600 6V47/EHB
C604 0.1/UFV
C612 0.1/UBV
C614 0.01/UBV
R601 470/J3
R611 0/J3
CYLH_V+ (13)
CYL_ERR (6)
SERVO_REF (6)
C616 16V10/EHB
C602 0.01/UBV
C606 0.01/UBV
IC600 AN3890FBS
CYLH1- (13)
CYLH1+ (13)
CYLH2- (13)
CYLH2+ (13)
CYLH3- (13)
C608 0.01/UBV
CYLH3+ (13)
C610 0.1/UBV
R602 470/J3
CYLH_V- (13)
CYL_GND (8)
(8) CYL_SW
(9) TRIANG
(8) CYL_VM
2SB1073-TX X 3
D601
D603
D607
Q600
Q602
Q606
PAT/MA738-TX X 6
C618 0.1/UBV
C619 0.1/UBV
C622 0.1/UBV
(13) CYL_M1
(13) CYL_M2
(13) CYL_M3
2SD1119-TX X 3
Q601
Q603
Q607
D602
D604
D608
R613 1/J8
R616 1/J8
R618 1/J8
R619 22K/J3
R603 22K/J3
QR600 UN5213-TX
CYL_ON_L (4)
R608 33K/RE7
R610 2200/RE7
C601 6V47/EHB
C605 0.1/UFV
C613 0.1/UBV
C615 0.01/UBV
R605 470/J3
R612 0/J3
CAPH_V+ (13)
CAP_ERR (6)
C617 16V10/EHB
C603 0.01/UBV
C607 0.01/UBV
IC601 AN3890FBS
CAPH1- (13)
CAPH1+ (13)
CAPH2- (13)
CAPH2+ (13)
CAPH3- (13)
(8) CAP_SW
(8) CAP_VM
C609 0.01/UBV
CAPH3+ (13)
C611 0.1/UBV
R606 470/J3
CAPH_V- (13)
CAP_GND (8)
TG4 EYF6CU
CACY_GND (13)
D605 MA738-TX
D609 MA738-TX
D611 MA738-TX
Q604 PU3210
C620 0.1/UBV
C621 0.1/UBV
C623 0.1/UBV
(13) CAP_M1
(13) CAP_M2
(13) CAP_M3
D606 MA738-TX
D610 MA738-TX
D612 MA738-TX
Q605 PU3110
R614 1/J8
R615 1/J8
R617 1/J8
+5VD
R600 3300/J3
QR602 UN5211-TX
QR601 UN5217-TX
CAP_ERR_SUB (6)
CAP_DIR (6)
N.C VCC ECR EC TL CS PC1 GND PCV N.C
N.C N.C N.C H1- H1+ H2- H2+ H3-
PCS SW FC M1 M2 M3 VM M1+
N.C H3+ PCH ED/S M1- M2- M3- M3+ M2+ N.C
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Ref No. 600 Series.

COMPONENT NAME	F7:SERVO (CA_CY_DRV)	11/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (11/14)	
	SCM104	


TAPE_START_L (13)
TP651 EYF6CU
R669 1000/J3
IC658 NJM2903M-T1
C660 0.1/UFV
R679 100K/J3
R681 10K/J3
R671 10K/J3
R672 10K/J3
+3VD
(4) TAPE_START_H
TAPE_END_L (13)
TP652 EYF6CU
R670 1000/J3
R673 10K/J3
R674 10K/J3
R680 100K/J3
R682 10K/J3
(4) TAPE_END_H
(4) TAPE_START_AD
(4) TAPE_END_AD
TAPE_SENSOR_ON_H (4)
SOL_POW_IN (13)
Q651 2SB710A-TX
R687 10K/J3
R688 2200/J6
QR661 UN5214-TX
R691 180/J8
R692 180/J8
(13) TAPE_SENSOR_ON
RESET_L (4)
QR652 UN5113-TX
QR653 UN5213-TX
D656 MA147-GTX
R665 PAT
+12V
R667 10K/J3
QR654 UN5213-TX
D652 MA142WK-GTX
R657 470/J3
D661 MA142WK-GTX
D662 MA142K-GTX
D663 MA8033-HTX
QR659 UN5214-TX
D664 MA8039-HTX
QR660 UN5214-TX
C699 0.1/UFV
D653 MA142WK-GTX
R658 470/J3
C700 0.1/UFV
D654 MA142WK-GTX
R659 470/J3
D651 MA142K-GTX
C671 0.1/UFV
D655 MA142WK-GTX
R660 470/J3
(13) S_BRAKE_OFF_H
(13) S_BRAKE_ON_H
(13) T_BRAKE_OFF_H
(13) T_BRAKE_ON_H
(13) PINCH_ON_H
(13) PINCH_OFF_H
(13) M_STOPPER_OFF_H
(13) M_STOPPER_ON_H
(13) SOL_POW_OUT
R654 1000/J3
IC650 TVHT541FTEL
S_BRAKE_OFF_3V (5)
S_BRAKE_ON_3V (5)
T_BRAKE_OFF_3V (5)
T_BRAKE_ON_3V (5)
PINCH_ON_3V (5)
PINCH_OFF_3V (5)
M_STOPPER_OFF_3V (5)
M_STOPPER_ON_3V (5)
R651 D1H84734A008
R652 D1H84734A008
IC651 TC4538BF
C653 0.1/UFV
R655 56K/J3
R656 330K/J3
C657 1/UBM
R663 220K/J3
C658 1/UBM
R668 56K/J3
D657 MA142WK-GTX
D658 MA142WA-GTX
QR658 UN5113-TX
QR655 UN5214-TX
QR656 UN5214-TX
D659 MA8051-MTX
D660 MA8082-HTX
C659 0.1/UBV
R676 100K/J3
R675 10K/J6
R677 100K/J3
R678 470K/J3
IC652 NJM2904V-TE1
C662 560P/UV
C664 0.1/UFV
R683 10K/J3
R686 680/J8
R689 680/J8
R690 680/J8
Q650 2SD601A-TX
Q652 2SB936AQPDSX
D666 MA738-TX
C667 16V47/EHB
SOL_SF (5)
QR651 UN5213-TX
SOL_LOW_H (5)
QR657 UN5213-TX
CLE_SOL_ON_H (5)
R693 1000/J3
R697 22K/J3
R698 1000/J8
QR663 UN5214-TX
Q654 2SB766-TX
D669 MA738-TX
D670 MA738-TX
(13) CLEANING_ON
C668 6V100/EHB EEVHB0J101P
R694 33K/J3
D667 MA142K-GTX
D668 MA738-TX
R695 22K/J3
Q653 2SB766-TX
R696 1000/J8
QR662 UN5214-TX
IC653 TVHC123FTEL
+5VD
IC650 TVHT541FTEL
C651 0.1/UFV
IC654 TVHT541FTEL
C652 0.1/UFV
C654 0.1/UFV
IC655 M54649L
C666 0.1/UFV
(13) R_STAND_S2L
(13) R_STAND_L2S
R684 270/J6
R685 2200/J6
D665 MA8075-MTX
R662 1000/J3
IC654 TVHT541FTEL
LOAD_ON_H (5)
F_LOAD_ON_H (5)
STAND_ON_H (5)
L2S_H (5)
UNLOAD_IN_H (5)
R653 D1H84734A008
IC656 M54649L
LOAD_ERR (6)
IC652 NJM2904V-TE1
R666 120/J3
R664 22K/J3
CP650
R661 10K/J3
C663 0.1/UFV
C661 16V47 EEVHB1C470P
C665 0.1/UFV
(13) LOAD_F_OUT
(13) F_LOAD_IN
(13) UNLOADING
PAT=PATTERN ONLY
Ref No. 650 Series.
A
B
C
D
E
F
G
H
I
J
1
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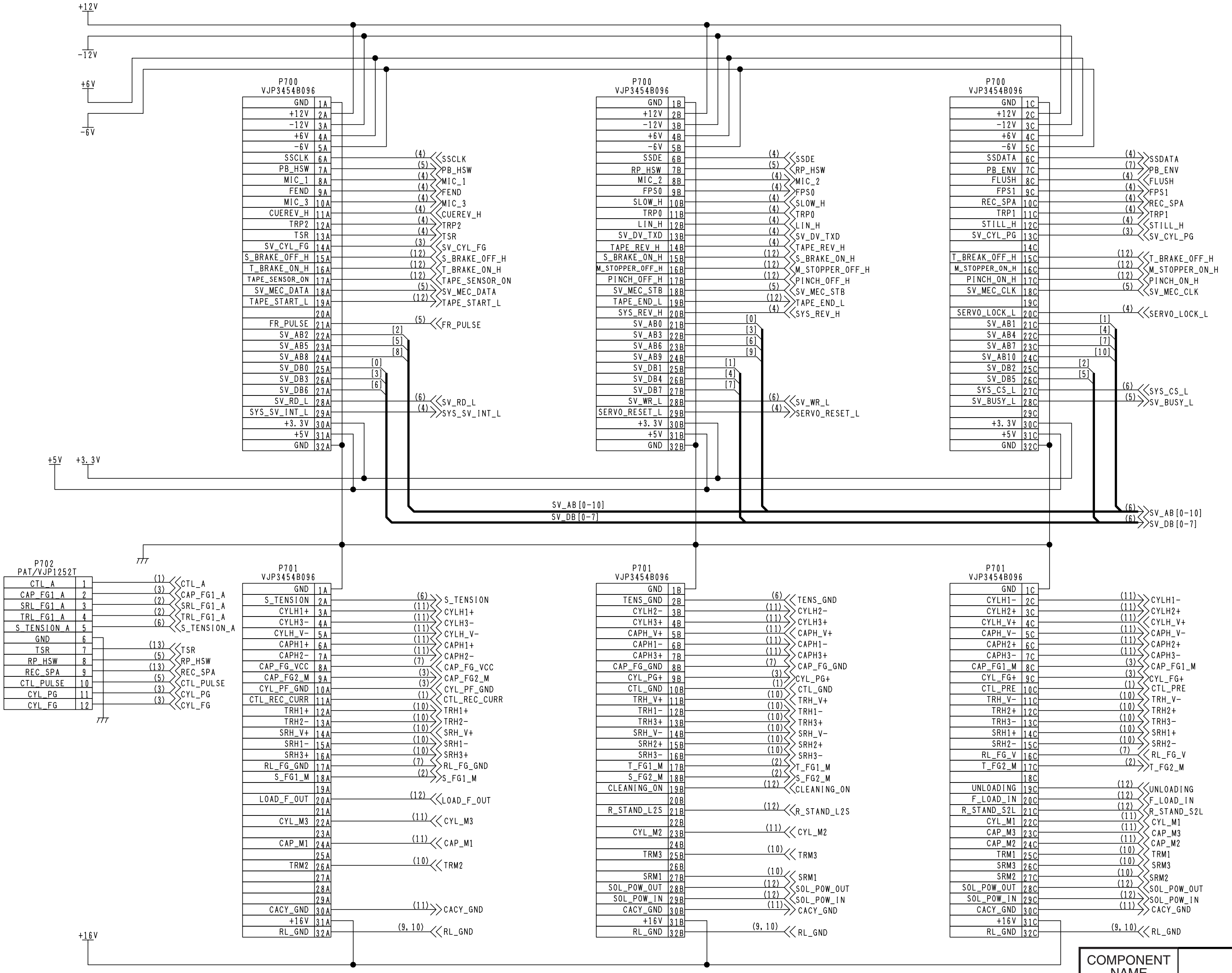
COMPONENT NAME	F7:SERVO (M_IF)	12/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (12/14)	
	SCM105	

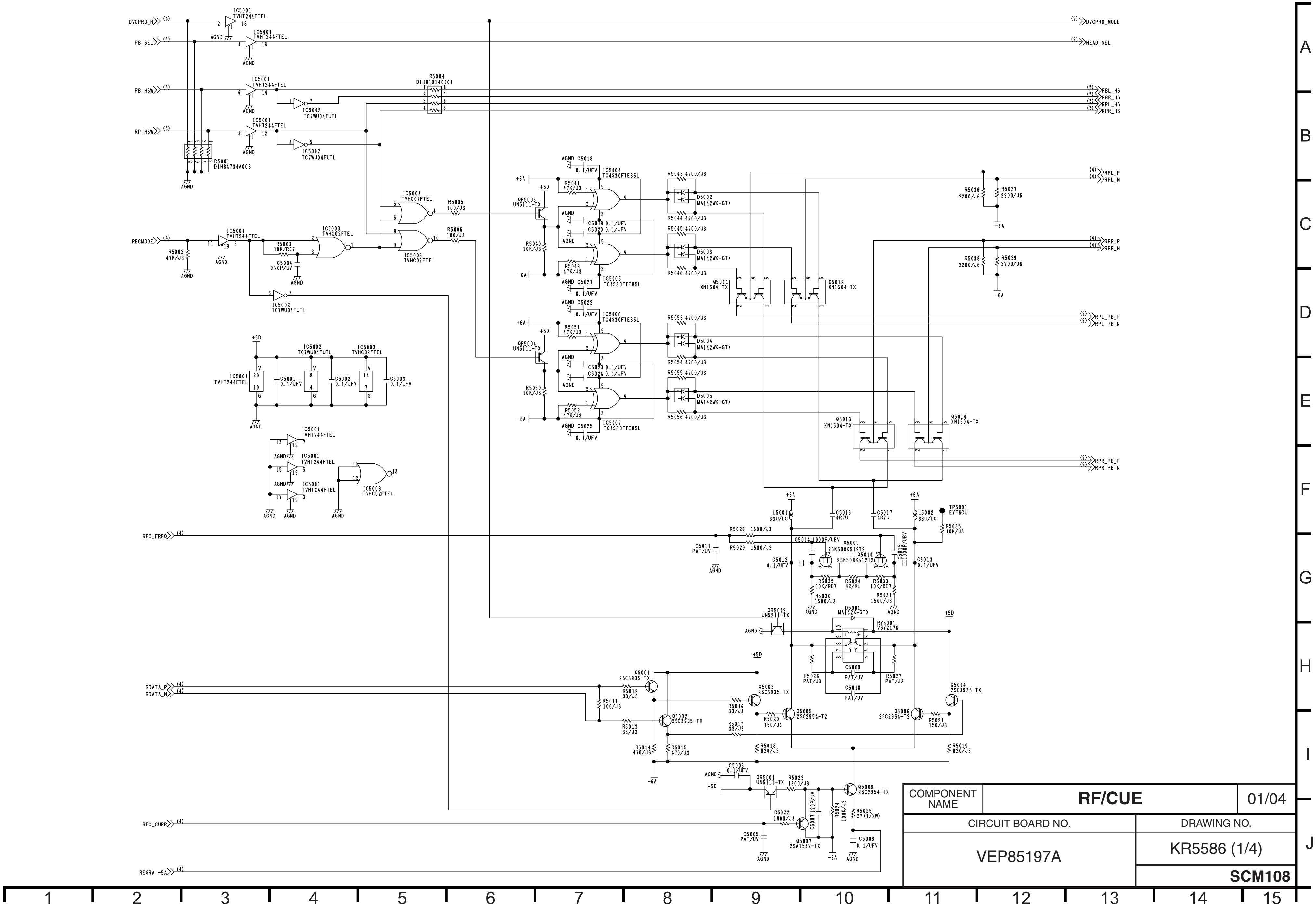

+12V
-12V
+6V
-6V
+5V
+3.3V
+16V
P700
VJP3454B096
GND 1A
+12V 2A
-12V 3A
+6V 4A
-6V 5A
SSCLK 6A
PB_HSW 7A
MIC_1 8A
FEND 9A
MIC_3 10A
CUEREV_H 11A
TRP2 12A
TSR 13A
SV_CYL_FG 14A
S_BRAKE_OFF_H 15A
T_BRAKE_ON_H 16A
TAPE_SENSOR_ON 17A
SV_MEC_DATA 18A
TAPE_START_L 19A
20A
FR_PULSE 21A
SV_AB2 22A
SV_AB5 23A
SV_AB8 24A
SV_DB0 25A
SV_DB3 26A
SV_DB6 27A
SV_RD_L 28A
SYS_SV_INT_L 29A
+3.3V 30A
+5V 31A
GND 32A
(4) SSCLK
(5) PB_HSW
(4) MIC_1
(4) FEND
(4) MIC_3
(4) CUEREV_H
(4) TRP2
(4) TSR
(3) SV_CYL_FG
(12) S_BRAKE_OFF_H
(12) T_BRAKE_ON_H
(12) TAPE_SENSOR_ON
(5) SV_MEC_DATA
(12) TAPE_START_L
(5) FR_PULSE
[2]
[5]
[8]
[0]
[3]
[6]
(6) SV_RD_L
(4) SYS_SV_INT_L
P700
VJP3454B096
GND 1B
+12V 2B
-12V 3B
+6V 4B
-6V 5B
SSDE 6B
RP_HSW 7B
MIC_2 8B
FPS0 9B
SLOW_H 10B
TRP0 11B
LIN_H 12B
SV_DV_TXD 13B
TAPE_REV_H 14B
S_BRAKE_ON_H 15B
M_STOPPER_OFF_H 16B
PINCH_OFF_H 17B
SV_MEC_STB 18B
TAPE_END_L 19B
SYS_REV_H 20B
SV_AB0 21B
SV_AB3 22B
SV_AB6 23B
SV_AB9 24B
SV_DB1 25B
SV_DB4 26B
SV_DB7 27B
SV_WR_L 28B
SERVO_RESET_L 29B
+3.3V 30B
+5V 31B
GND 32B
(4) SSDE
(5) RP_HSW
(4) MIC_2
(4) FPS0
(4) SLOW_H
(4) TRP0
(4) LIN_H
(4) SV_DV_TXD
(4) TAPE_REV_H
(12) S_BRAKE_ON_H
(12) M_STOPPER_OFF_H
(12) PINCH_OFF_H
(5) SV_MEC_STB
(12) TAPE_END_L
(4) SYS_REV_H
[0]
[3]
[6]
[9]
[1]
[4]
[7]
(6) SV_WR_L
(4) SERVO_RESET_L
P700
VJP3454B096
GND 1C
+12V 2C
-12V 3C
+6V 4C
-6V 5C
SSDATA 6C
PB_ENV 7C
FLUSH 8C
FPS1 9C
REC_SPA 10C
TRP1 11C
STILL_H 12C
SV_CYL_PG 13C
14C
T_BREAK_OFF_H 15C
M_STOPPER_ON_H 16C
PINCH_ON_H 17C
SV_MEC_CLK 18C
19C
SERVO_LOCK_L 20C
SV_AB1 21C
SV_AB4 22C
SV_AB7 23C
SV_AB10 24C
SV_DB2 25C
SV_DB5 26C
SYS_CS_L 27C
SV_BUSY_L 28C
29C
+3.3V 30C
+5V 31C
GND 32C
(4) SSDATA
(7) PB_ENV
(4) FLUSH
(4) FPS1
(4) REC_SPA
(4) TRP1
(4) STILL_H
(3) SV_CYL_PG
(12) T_BRAKE_OFF_H
(12) M_STOPPER_ON_H
(12) PINCH_ON_H
(5) SV_MEC_CLK
(4) SERVO_LOCK_L
[1]
[4]
[7]
[10]
[2]
[5]
(6) SYS_CS_L
(5) SV_BUSY_L
SV_AB[0-10]
SV_DB[0-7]
(6) SV_AB[0-10]
(6) SV_DB[0-7]
P702
PAT/VJP1252T
CTL_A 1
CAP_FG1_A 2
SRL_FG1_A 3
TRL_FG1_A 4
S_TENSION_A 5
GND 6
TSR 7
RP_HSW 8
REC_SPA 9
CTL_PULSE 10
CYL_PG 11
CYL_FG 12
(1) CTL_A
(3) CAP_FG1_A
(2) SRL_FG1_A
(2) TRL_FG1_A
(6) S_TENSION_A
(13) TSR
(5) RP_HSW
(13) REC_SPA
(5) CTL_PULSE
(3) CYL_PG
(3) CYL_FG
P701
VJP3454B096
GND 1A
S_TENSION 2A
CYLH1+ 3A
CYLH3- 4A
CYLH_V- 5A
CAPH1+ 6A
CAPH2- 7A
CAP_FG_VCC 8A
CAP_FG2_M 9A
CYL_PF_GND 10A
CTL_REC_CURR 11A
TRH1+ 12A
TRH2- 13A
SRH_V+ 14A
SRH1- 15A
SRH3+ 16A
RL_FG_GND 17A
S_FG1_M 18A
19A
LOAD_F_OUT 20A
21A
CYL_M3 22A
23A
CAP_M1 24A
25A
TRM2 26A
27A
28A
29A
CACY_GND 30A
+16V 31A
RL_GND 32A
(6) S_TENSION
(11) CYLH1+
(11) CYLH3-
(11) CYLH_V-
(11) CAPH1+
(11) CAPH2-
(7) CAP_FG_VCC
(3) CAP_FG2_M
(3) CYL_PF_GND
(1) CTL_REC_CURR
(10) TRH1+
(10) TRH2-
(10) SRH_V+
(10) SRH1-
(10) SRH3+
(7) RL_FG_GND
(2) S_FG1_M
(12) LOAD_F_OUT
(11) CYL_M3
(11) CAP_M1
(10) TRM2
(11) CACY_GND
(9, 10) RL_GND
P701
VJP3454B096
GND 1B
TENS_GND 2B
CYLH2- 3B
CYLH3+ 4B
CAPH_V+ 5B
CAPH1- 6B
CAPH3+ 7B
CAP_FG_GND 8B
CYL_PG+ 9B
CTL_GND 10B
TRH_V+ 11B
TRH1- 12B
TRH3+ 13B
SRH_V- 14B
SRH2+ 15B
SRH3- 16B
T_FG1_M 17B
S_FG2_M 18B
CLEANING_ON 19B
20B
R_STAND_L2S 21B
22B
CYL_M2 23B
24B
TRM3 25B
26B
SRM1 27B
SOL_POW_OUT 28B
SOL_POW_IN 29B
CACY_GND 30B
+16V 31B
RL_GND 32B
(6) TENS_GND
(11) CYLH2-
(11) CYLH3+
(11) CAPH_V+
(11) CAPH1-
(11) CAPH3+
(7) CAP_FG_GND
(3) CYL_PG+
(1) CTL_GND
(10) TRH_V+
(10) TRH1-
(10) TRH3+
(10) SRH_V-
(10) SRH2+
(10) SRH3-
(2) T_FG1_M
(2) S_FG2_M
(12) CLEANING_ON
(12) R_STAND_L2S
(11) CYL_M2
(10) TRM3
(10) SRM1
(12) SOL_POW_OUT
(12) SOL_POW_IN
(11) CACY_GND
(9, 10) RL_GND
P701
VJP3454B096
GND 1C
CYLH1- 2C
CYLH2+ 3C
CYLH_V+ 4C
CAPH_V- 5C
CAPH2+ 6C
CAPH3- 7C
CAP_FG1_M 8C
CYL_FG+ 9C
CTL_PRE 10C
TRH_V- 11C
TRH2+ 12C
TRH3- 13C
SRH1+ 14C
SRH2- 15C
RL_FG_V 16C
T_FG2_M 17C
18C
UNLOADING 19C
F_LOAD_IN 20C
R_STAND_S2L 21C
CYL_M1 22C
CAP_M3 23C
CAP_M2 24C
TRM1 25C
SRM3 26C
SRM2 27C
SOL_POW_OUT 28C
SOL_POW_IN 29C
CACY_GND 30C
+16V 31C
RL_GND 32C
(11) CYLH1-
(11) CYLH2+
(11) CYLH_V+
(11) CAPH_V-
(11) CAPH2+
(11) CAPH3-
(3) CAP_FG1_M
(3) CYL_FG+
(1) CTL_PRE
(10) TRH_V-
(10) TRH2+
(10) TRH3-
(10) SRH1+
(10) SRH2-
(7) RL_FG_V
(2) T_FG2_M
(12) UNLOADING
(12) F_LOAD_IN
(12) R_STAND_S2L
(11) CYL_M1
(11) CAP_M3
(11) CAP_M2
(10) TRM1
(10) SRM3
(10) SRM2
(12) SOL_POW_OUT
(12) SOL_POW_IN
(11) CACY_GND
(9, 10) RL_GND

Ref No. 700 Series.

COMPONENT NAME	F7:SERVO	13/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (13/14)	
	SCM106	

IP201 MN1030F04KHF			IP300 EPM3256A1410		
VSI3565A			VSI3567		

COMPONENT NAME	**F7:SERVO (SOFT)**	14/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (14/14)	
	SCM107	


DVCPRO_H
PB_SEL
PB_HSW
RP_HSW
RECMODE
REC_FREQ
RDATA_P
RDATA_N
REC_CURR
REGRA_-5A
DVCPRO_MODE
HEAD_SEL
PBL_HS
PBR_HS
RPL_HS
RPR_HS
RPL_P
RPL_N
RPR_P
RPR_N
RPL_PB_P
RPL_PB_N
RPR_PB_P
RPR_PB_N
IC5001 TVHT244FTEL
IC5002 TC7WU04FUTL
IC5003 TVHC02FTEL
IC5004 TC4S30FTE85L
IC5005 TC4S30FTE85L
IC5006 TC4S30FTE85L
IC5007 TC4S30FTE85L
R5001 D1H84734A008
R5004 D1H810140001
R5002 47K/J3
R5003 10K/RE7
C5004 220P/UV
R5005 100/J3
R5006 100/J3
QR5003 UN5111-TX
QR5004 UN5111-TX
R5040 10K/J3
R5041 47K/J3
R5042 47K/J3
R5050 10K/J3
R5051 47K/J3
R5052 47K/J3
C5018 0.1/UFV
C5019 0.1/UFV
C5020 0.1/UFV
C5021 0.1/UFV
C5022 0.1/UFV
C5023 0.1/UFV
C5024 0.1/UFV
C5025 0.1/UFV
R5043 4700/J3
R5044 4700/J3
R5045 4700/J3
R5046 4700/J3
R5053 4700/J3
R5054 4700/J3
R5055 4700/J3
R5056 4700/J3
D5002 MA142WK-GTX
D5003 MA142WK-GTX
D5004 MA142WK-GTX
D5005 MA142WK-GTX
Q5011 XN1504-TX
Q5012 XN1504-TX
Q5013 XN1504-TX
Q5014 XN1504-TX
R5036 2200/J6
R5037 2200/J6
R5038 2200/J6
R5039 2200/J6
C5001 0.1/UFV
C5002 0.1/UFV
C5003 0.1/UFV
+5D
+6A
-6A
AGND
L5001 33U/LC
L5002 33U/LC
C5016 4R7U
C5017 4R7U
TP5001 EYF6CU
R5035 10K/J3
R5028 1500/J3
R5029 1500/J3
C5011 PAT/UV
C5014 1000P/UBV
C5015 1000P/UBV
Q5009 2SK508K512T2
Q5010 2SK508K512T2
C5012 0.1/UFV
C5013 0.1/UFV
R5032 10K/RE7
R5034 82/RE
R5033 10K/RE7
R5030 1500/J3
R5031 1500/J3
QR5002 UN5211-TX
D5001 MA142K-GTX
RY5001 VSF2176
R5026 PAT/J3
R5027 PAT/J3
C5009 PAT/UV
C5010 PAT/UV
Q5001 2SC3935-TX
Q5002 2SC3935-TX
Q5003 2SC3935-TX
Q5004 2SC3935-TX
Q5005 2SC2954-T2
Q5006 2SC2954-T2
R5011 100/J3
R5012 33/J3
R5013 33/J3
R5014 470/J3
R5015 470/J3
R5016 33/J3
R5017 33/J3
R5018 820/J3
R5019 820/J3
R5020 150/J3
R5021 150/J3
C5006 0.1/UFV
QR5001 UN5111-TX
R5023 1800/J3
R5022 1800/J3
C5007 120P/UV
R5024 100K/J3
Q5008 2SC2954-T2
R5025 27(1/2W)
Q5007 2SA1532-TX
C5005 PAT/UV
C5008 0.1/UFV
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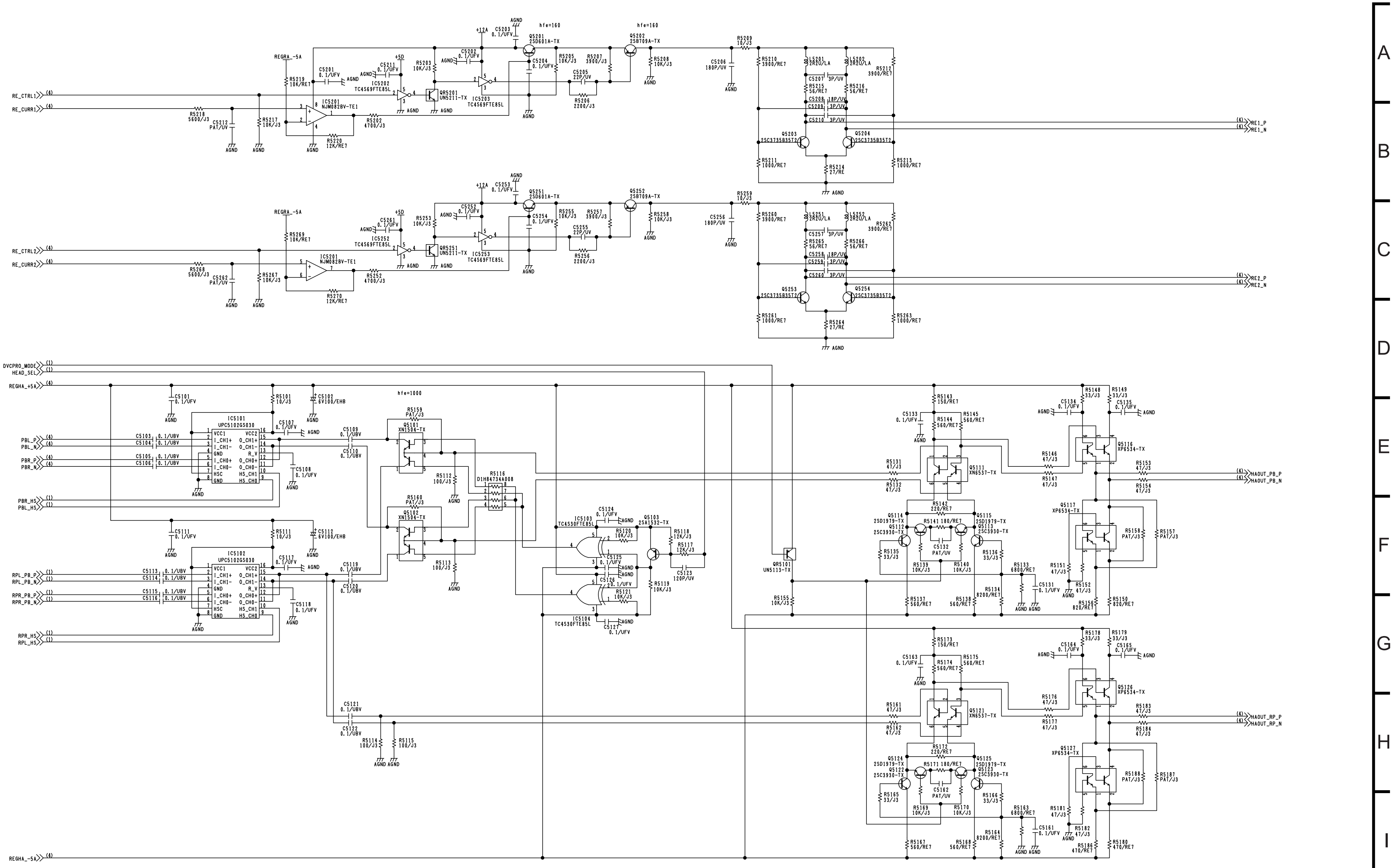
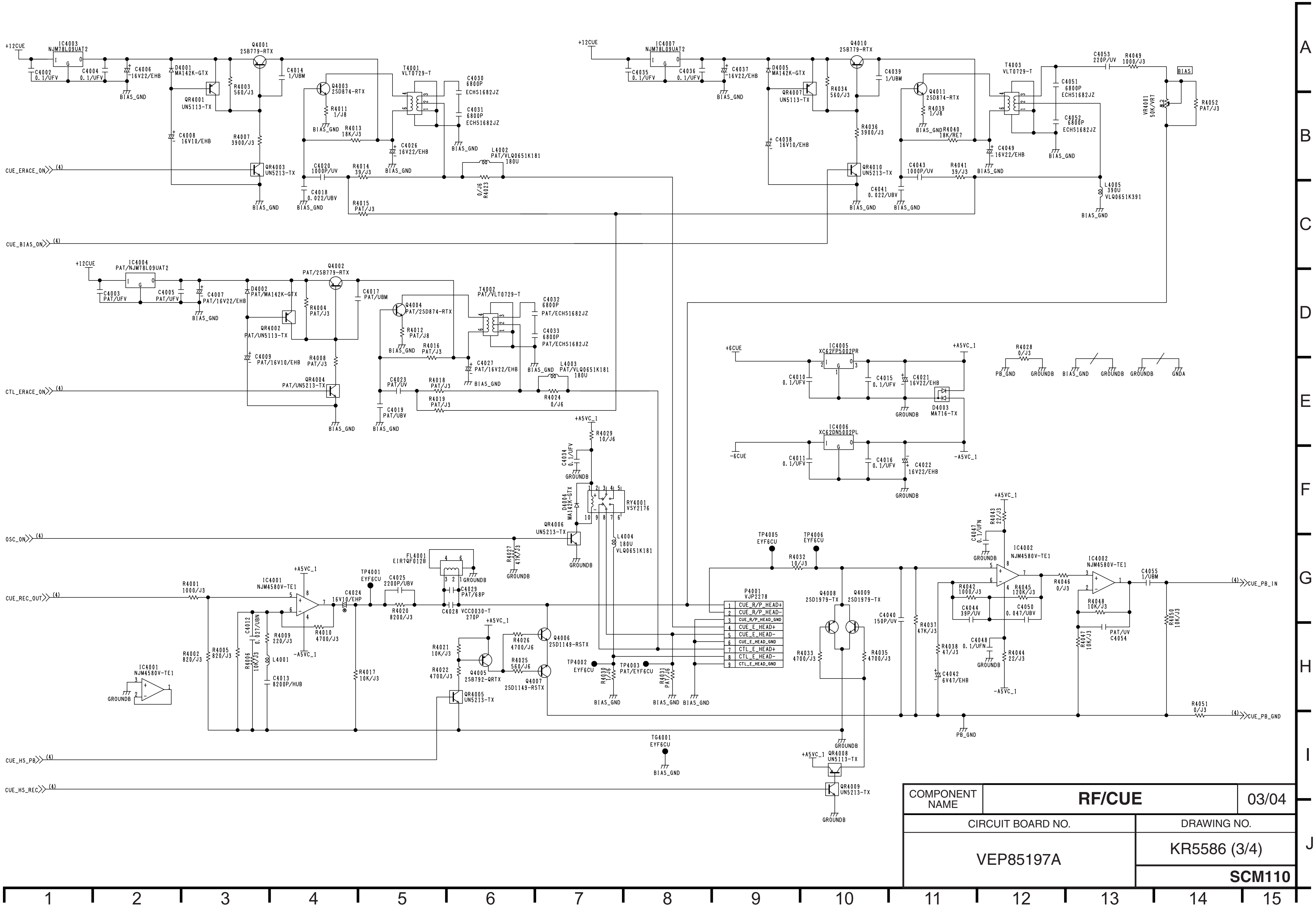
COMPONENT NAME	RF/CUE		01/04
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85197A		KR5586 (1/4)	
		SCM108	


RE_CTRL1
RE_CURR1
REGRA_-5A
IC5201 NJM082BV-TE1
IC5202 TC4S69FTE85L
IC5203 TC4S69FTE85L
QR5201 UN5211-TX
Q5201 2SD601A-TX
Q5202 2SB709A-TX
hfe=160
Q5203 2SC3735B35T2
Q5204 2SC3735B35T2
RE1_P
RE1_N
RE_CTRL2
RE_CURR2
IC5252 TC4S69FTE85L
IC5253 TC4S69FTE85L
QR5251 UN5211-TX
Q5251 2SD601A-TX
Q5252 2SB709A-TX
Q5253 2SC3735B35T2
Q5254 2SC3735B35T2
RE2_P
RE2_N
DVCPRO_MODE
HEAD_SEL
REGHA_+5A
PBL_P
PBL_N
PBR_P
PBR_N
PBR_HS
PBL_HS
IC5101 UPC5102GS030
IC5102 UPC5102GS030
RPL_PB_P
RPL_PB_N
RPR_PB_P
RPR_PB_N
RPR_HS
RPL_HS
hfe=1000
Q5101 XN1504-TX
Q5102 XN1504-TX
R5116 D1H84734A008
IC5103 TC4S30FTE85L
IC5104 TC4S30FTE85L
Q5103 2SA1532-TX
QR5101 UN5113-TX
Q5111 XN6537-TX
Q5116 XP6534-TX
Q5117 XP6534-TX
HAOUT_PB_P
HAOUT_PB_N
Q5121 XN6537-TX
Q5126 XP6534-TX
Q5127 XP6534-TX
HAOUT_RP_P
HAOUT_RP_N
REGHA_-5A
AGND

COMPONENT NAME	RF/CUE	02/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85197A	KR5586 (2/4)	
	SCM109	



+12CUE
IC4003
NJM78L09UAT2
C4002
0.1/UFV
C4004
0.1/UFV
C4006
16V22/EHB
BIAS_GND
D4001
MA142K-GTX
QR4001
UN5113-TX
R4003
560/J3
Q4001
2SB779-RTX
C4014
1/UBM
Q4003
2SD874-RTX
R4011
1/J8
R4013
18K/J3
T4001
VLT0729-T
C4030
6800P
ECHS1682JZ
C4031
6800P
ECHS1682JZ
C4008
16V10/EHB
R4007
3900/J3
C4026
16V22/EHB
L4002
PAT/VLQ0651K181
180U
CUE_ERACE_ON
(4)
QR4003
UN5213-TX
C4020
1000P/UV
R4014
39/J3
R4023
0/J6
C4018
0.022/UBV
R4015
PAT/J3
CUE_BIAS_ON
IC4007
C4035
C4036
C4037
D4005
QR4007
R4034
Q4010
C4039
Q4011
R4039
R4040
18K/RE7
T4003
C4051
C4052
C4053
220P/UV
R4049
1000/J3
BIAS
VR4001
50K/VR7
R4052
PAT/J3
C4038
R4036
C4049
QR4010
C4043
R4041
L4005
390U
VLQ0651K391
C4041
IC4004
PAT/NJM78L09UAT2
C4003
C4005
C4007
D4002
PAT/MA142K-GTX
Q4002
PAT/2SB779-RTX
C4017
R4004
QR4002
PAT/UN5113-TX
Q4004
PAT/2SD874-RTX
T4002
PAT/VLT0729-T
C4032
C4033
R4012
R4016
C4009
R4008
C4027
L4003
PAT/VLQ0651K181
CTL_ERACE_ON
QR4004
PAT/UN5213-TX
C4023
R4018
R4019
R4024
C4019
IC4005
XC62FP5002PR
+6CUE
+A5VC_1
C4010
C4015
C4021
D4003
MA716-TX
GROUNDB
IC4006
XC62DN5002PL
-6CUE
C4011
C4016
C4022
-A5VC_1
R4028
0/J3
PB_GND
GROUNDB
BIAS_GND
GNDA
R4029
10/J6
C4034
D4004
RY4001
VSY2176
L4004
180U
VLQ0651K181
OSC_ON
QR4006
UN5213-TX
R4027
47K/J3
TP4005
EYF6CU
TP4006
EYF6CU
R4032
10/J3
R4043
22/J3
C4047
0.1/UFN
IC4002
NJM4580V-TE1
FL4001
EIR7QF0126
TP4001
C4025
2200P/UBV
C4029
PAT/68P
C4024
16V10/EHP
C4028
VCC0030-T
270P
CUE_REC_OUT
R4001
1000/J3
IC4001
NJM4580V-TE1
R4010
4700/J3
R4020
8200/J3
R4002
820/J3
R4005
820/J3
R4006
C4012
0.027/UBN
R4009
220/J3
L4001
C4013
8200P/HUB
R4017
10K/J3
R4021
10K/J3
R4022
4700/J3
Q4005
2SB792-QRTX
R4026
4700/J6
R4025
560/J6
Q4006
2SD1149-RSTX
Q4007
2SD1149-RSTX
QR4005
UN5213-TX
TP4002
TP4003
PAT/EYF6CU
R4030
R4031
P4001
VJP2278
1 CUE_R/P_HEAD+
2 CUE_R/P_HEAD-
3 CUE_R/P_HEAD_GND
4 CUE_E_HEAD+
5 CUE_E_HEAD-
6 CUE_E_HEAD_GND
7 CTL_E_HEAD+
8 CTL_E_HEAD-
9 CTL_E_HEAD_GND
Q4008
2SD1979-TX
Q4009
2SD1979-TX
R4033
4700/J3
R4035
4700/J3
C4040
150P/UV
R4037
47K/J3
R4038
47/J3
C4042
6V47/EHB
C4048
0.1/UFN
R4042
1000/J3
C4044
39P/UV
R4045
120K/J3
C4050
0.047/UBV
R4044
22/J3
R4046
0/J3
R4048
10K/J3
R4047
10K/J3
C4054
PAT/UV
C4055
1/UBM
R4050
10K/J3
CUE_PB_IN
R4051
0/J3
CUE_PB_GND
TG4001
EYF6CU
QR4008
UN5113-TX
QR4009
UN5213-TX
CUE_HS_PB
CUE_HS_REC
A
B
C
D
E
F
G
H
I
J
1
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3
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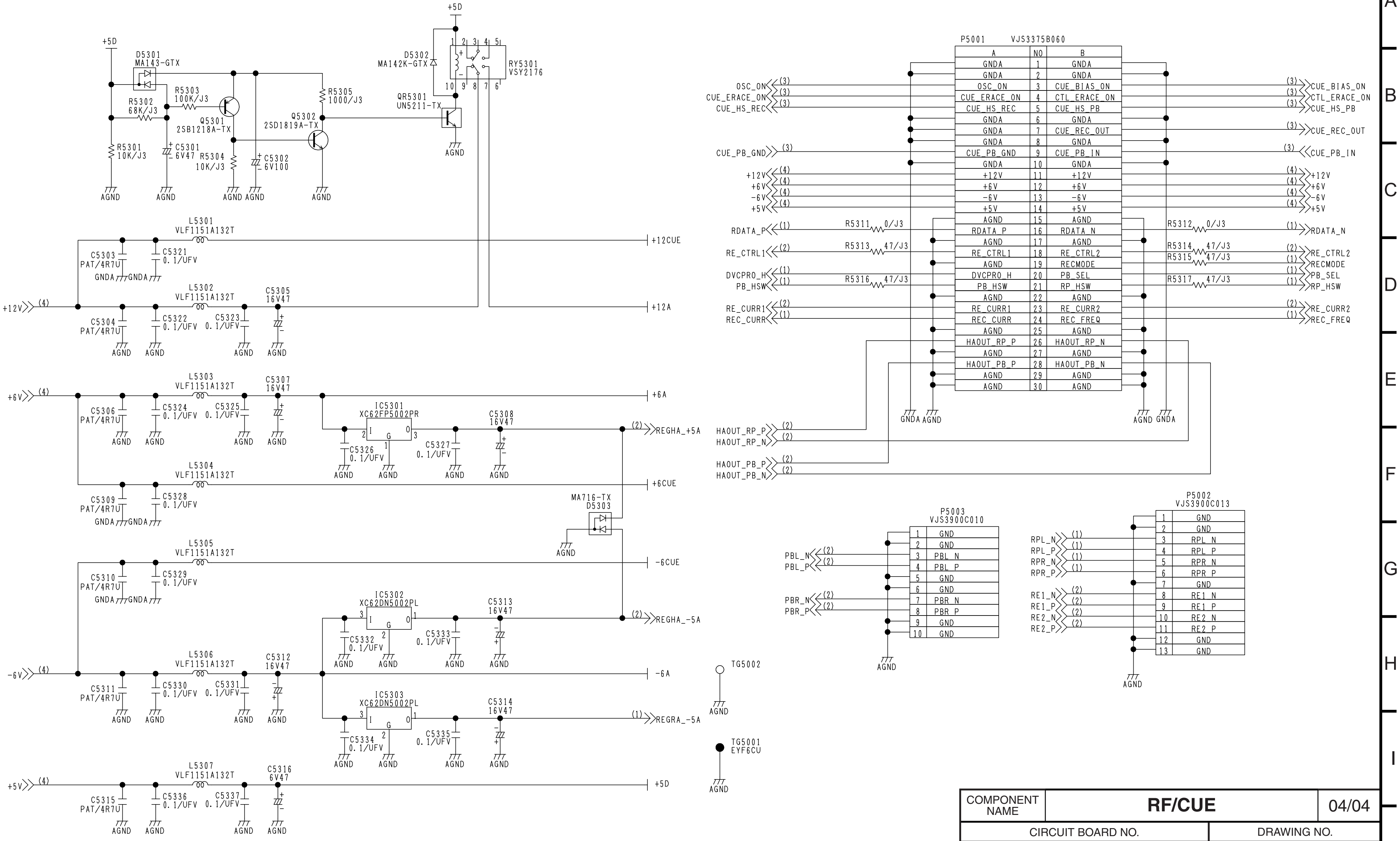
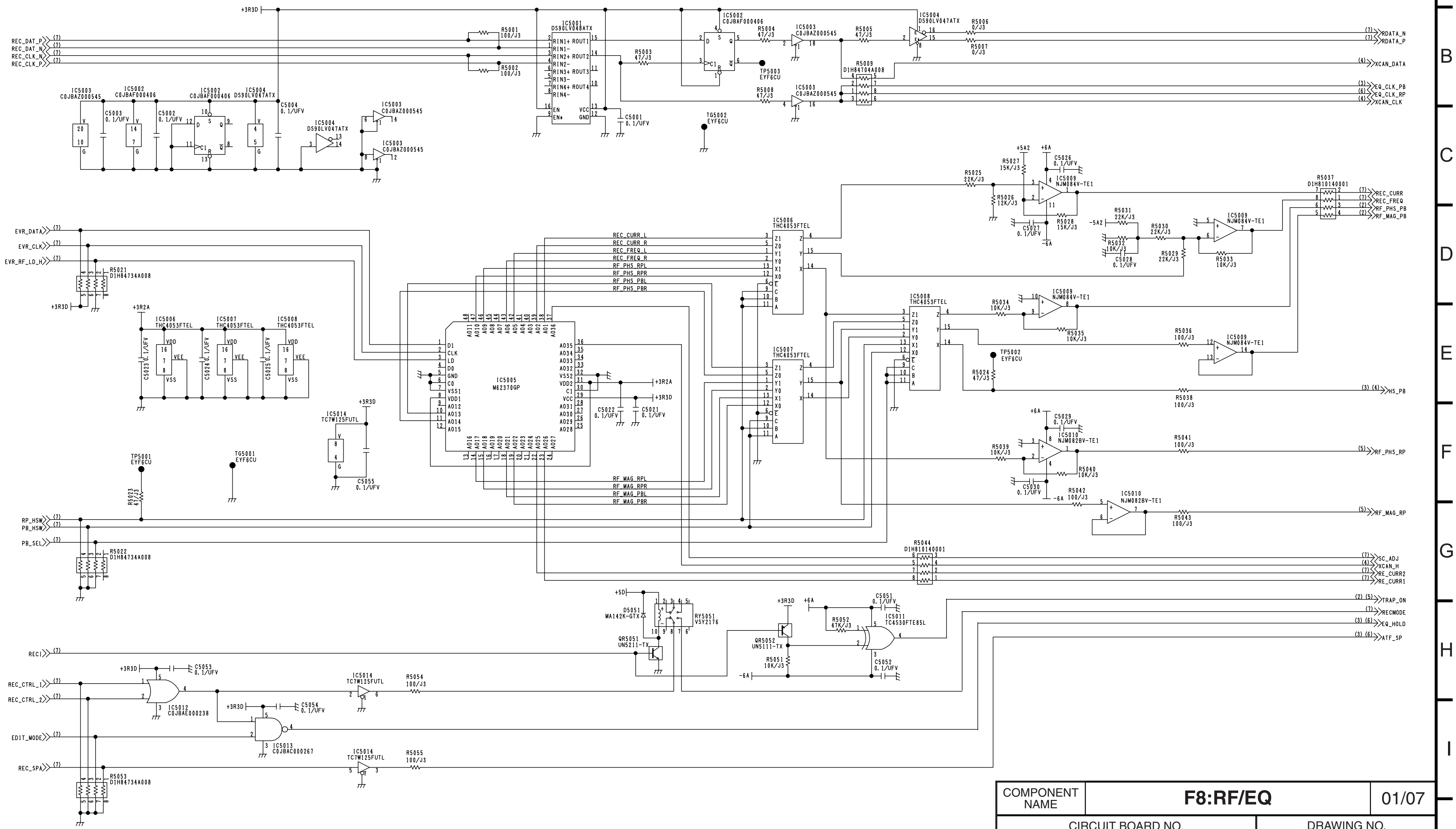
COMPONENT NAME	RF/CUE	03/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85197A	KR5586 (3/4)	
	SCM110	

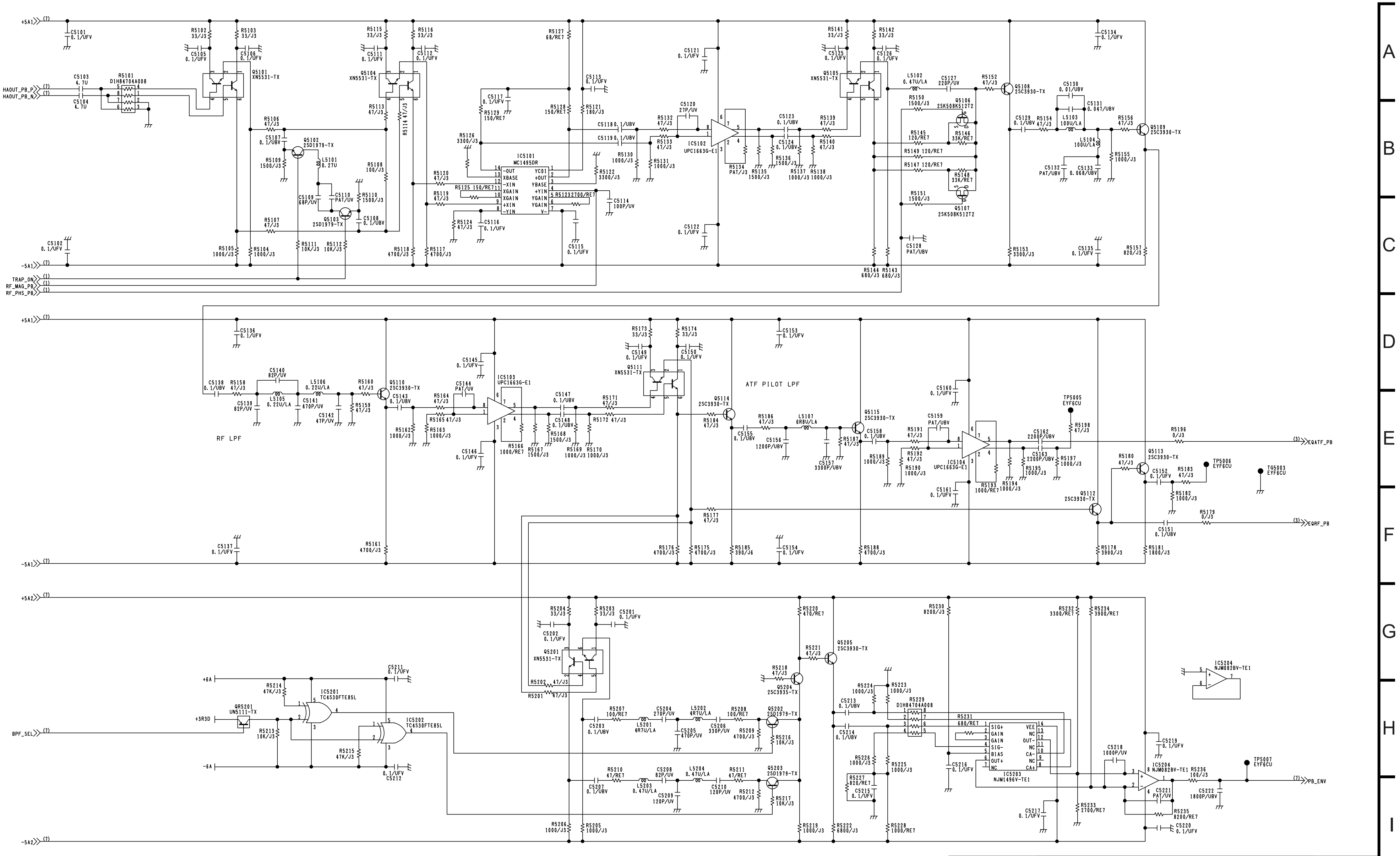

+5D
D5301
MA143-GTX
R5303
100K/J3
R5302
68K/J3
Q5301
2SB1218A-TX
R5301
10K/J3
C5301
6V47
R5304
10K/J3
C5302
6V100
R5305
1000/J3
Q5302
2SD1819A-TX
D5302
MA142K-GTX
QR5301
UN5211-TX
RY5301
VSY2176
AGND
L5301
VLF1151A132T
C5303
PAT/4R7U
C5321
0.1/UFV
GNDA
+12CUE
+12V
(4)
L5302
VLF1151A132T
C5305
16V47
C5304
PAT/4R7U
C5322
0.1/UFV
C5323
0.1/UFV
+12A
+6V
L5303
VLF1151A132T
C5307
16V47
C5306
PAT/4R7U
C5324
0.1/UFV
C5325
0.1/UFV
+6A
IC5301
XC62FP5002PR
C5308
16V47
C5326
0.1/UFV
C5327
0.1/UFV
(2)
REGHA_+5A
L5304
VLF1151A132T
C5309
PAT/4R7U
C5328
0.1/UFV
+6CUE
MA716-TX
D5303
L5305
VLF1151A132T
C5310
PAT/4R7U
C5329
0.1/UFV
-6CUE
IC5302
XC62DN5002PL
C5313
16V47
C5332
0.1/UFV
C5333
0.1/UFV
REGHA_-5A
-6V
L5306
VLF1151A132T
C5312
16V47
C5311
PAT/4R7U
C5330
0.1/UFV
C5331
0.1/UFV
-6A
IC5303
XC62DN5002PL
C5314
16V47
C5334
0.1/UFV
C5335
0.1/UFV
(1)
REGRA_-5A
+5V
L5307
VLF1151A132T
C5316
6V47
C5315
PAT/4R7U
C5336
0.1/UFV
C5337
0.1/UFV
+5D
TG5002
TG5001
EYF6CU
P5001 VJS3375B060
A | NO | B
GNDA | 1 | GNDA
GNDA | 2 | GNDA
OSC_ON | 3 | CUE_BIAS_ON
CUE_ERACE_ON | 4 | CTL_ERACE_ON
CUE_HS_REC | 5 | CUE_HS_PB
GNDA | 6 | GNDA
GNDA | 7 | CUE_REC_OUT
GNDA | 8 | GNDA
CUE_PB_GND | 9 | CUE_PB_IN
GNDA | 10 | GNDA
+12V | 11 | +12V
+6V | 12 | +6V
-6V | 13 | -6V
+5V | 14 | +5V
AGND | 15 | AGND
RDATA_P | 16 | RDATA_N
AGND | 17 | AGND
RE_CTRL1 | 18 | RE_CTRL2
AGND | 19 | RECMODE
DVCPRO_H | 20 | PB_SEL
PB_HSW | 21 | RP_HSW
AGND | 22 | AGND
RE_CURR1 | 23 | RE_CURR2
REC_CURR | 24 | REC_FREQ
AGND | 25 | AGND
HAOUT_RP_P | 26 | HAOUT_RP_N
AGND | 27 | AGND
HAOUT_PB_P | 28 | HAOUT_PB_N
AGND | 29 | AGND
AGND | 30 | AGND
OSC_ON (3)
CUE_ERACE_ON (3)
CUE_HS_REC (3)
CUE_PB_GND (3)
+12V (4)
+6V (4)
-6V (4)
+5V (4)
RDATA_P (1)
RE_CTRL1 (2)
DVCPRO_H (1)
PB_HSW (1)
RE_CURR1 (2)
REC_CURR (1)
R5311 0/J3
R5313 47/J3
R5316 47/J3
R5312 0/J3
R5314 47/J3
R5315 47/J3
R5317 47/J3
(3) CUE_BIAS_ON
(3) CTL_ERACE_ON
(3) CUE_HS_PB
(3) CUE_REC_OUT
(3) CUE_PB_IN
(4) +12V
(4) +6V
(4) -6V
(4) +5V
(1) RDATA_N
(2) RE_CTRL2
(1) RECMODE
(1) PB_SEL
(1) RP_HSW
(2) RE_CURR2
(1) REC_FREQ
HAOUT_RP_P (2)
HAOUT_RP_N (2)
HAOUT_PB_P (2)
HAOUT_PB_N (2)
P5003
VJS3900C010
1 GND
2 GND
3 PBL_N
4 PBL_P
5 GND
6 GND
7 PBR_N
8 PBR_P
9 GND
10 GND
PBL_N (2)
PBL_P (2)
PBR_N (2)
PBR_P (2)
P5002
VJS3900C013
1 GND
2 GND
3 RPL_N
4 RPL_P
5 RPR_N
6 RPR_P
7 GND
8 RE1_N
9 RE1_P
10 RE2_N
11 RE2_P
12 GND
13 GND
RPL_N (1)
RPL_P (1)
RPR_N (1)
RPR_P (1)
RE1_N (2)
RE1_P (2)
RE2_N (2)
RE2_P (2)

COMPONENT NAME	RF/CUE	04/04

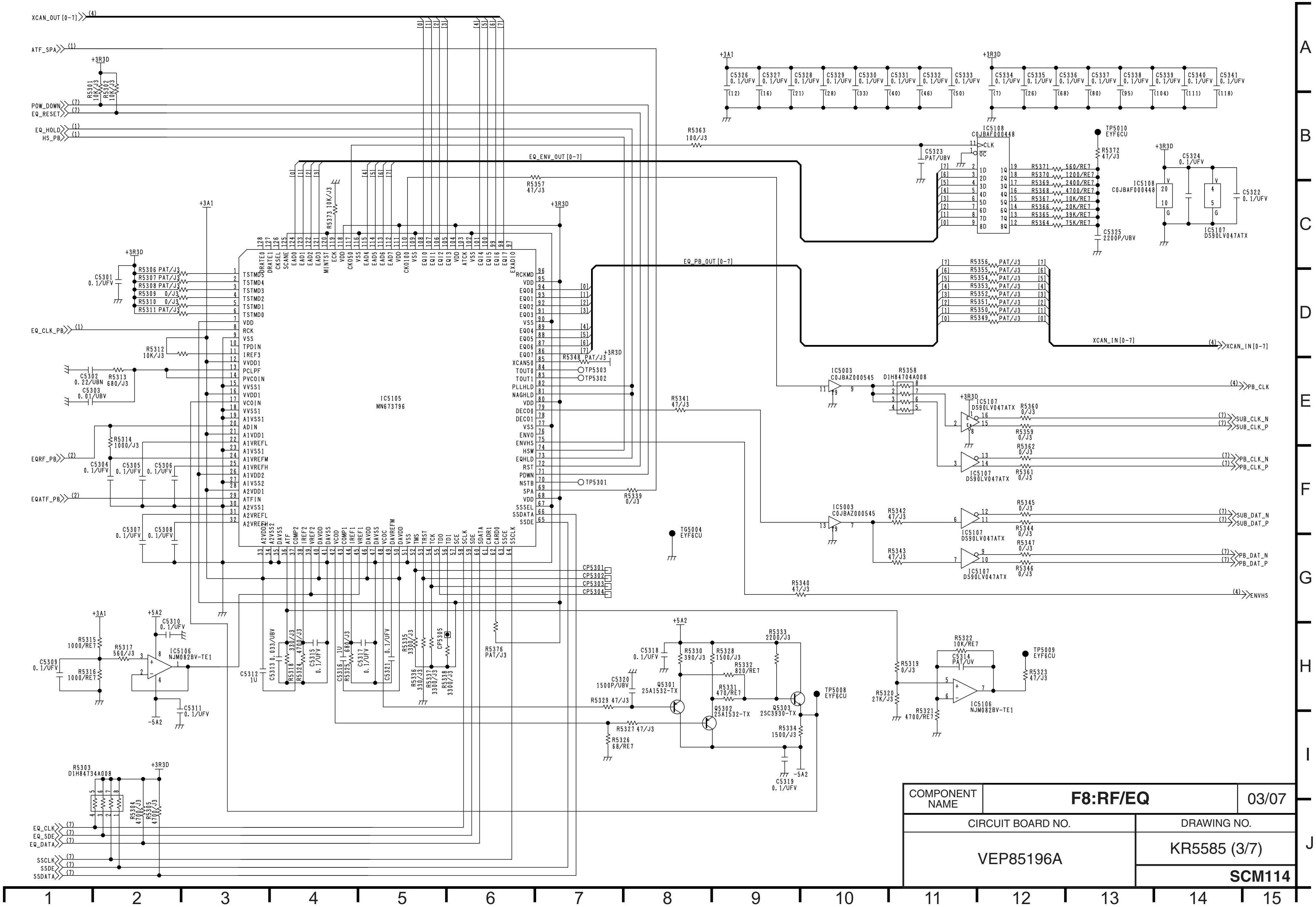
CIRCUIT BOARD NO.	DRAWING NO.
VEP85197A	KR5586 (4/4)
	SCM111


+3R3D
REC_DAT_P
REC_DAT_N
REC_CLK_N
REC_CLK_P
IC5001 DS90LV048ATX
IC5002 C0JBAF000406
IC5003 C0JBAZ000545
IC5004 DS90LV047ATX
R5001 100/J3
R5002 100/J3
R5003 47/J3
R5004 47/J3
R5005 47/J3
R5006 0/J3
R5007 0/J3
R5008 47/J3
R5009 D1H84704A008
C5001 0.1/UFV
C5002 0.1/UFV
C5003 0.1/UFV
C5004 0.1/UFV
TP5003 EYF6CU
TG5002 EYF6CU
RDATA_N
RDATA_P
XCAN_DATA
EQ_CLK_PB
EQ_CLK_RP
XCAN_CLK
EVR_DATA
EVR_CLK
EVR_RF_LD_H
R5021 D1H84734A008
+3R2A
IC5006 THC4053FTEL
IC5007 THC4053FTEL
IC5008 THC4053FTEL
C5023 0.1/UFV
C5024 0.1/UFV
C5025 0.1/UFV
IC5005 M62370GP
C5021 0.1/UFV
C5022 0.1/UFV
IC5014 TC7W125FUTL
C5055 0.1/UFV
TP5001 EYF6CU
TG5001 EYF6CU
R5023 47/J3
REC_CURR_L
REC_CURR_R
REC_FREQ_L
REC_FREQ_R
RF_PHS_RPL
RF_PHS_RPR
RF_PHS_PBL
RF_PHS_PBR
RF_MAG_RPL
RF_MAG_RPR
RF_MAG_PBL
RF_MAG_PBR
IC5009 NJM084V-TE1
IC5010 NJM082BV-TE1
R5025 22K/J3
R5026 12K/J3
R5027 15K/J3
R5028 15K/J3
R5029 22K/J3
R5030 22K/J3
R5031 22K/J3
R5032 10K/J3
R5033 10K/J3
R5034 10K/J3
R5035 10K/J3
R5036 100/J3
R5037 D1H810140001
R5038 100/J3
R5039 10K/J3
R5040 10K/J3
R5041 100/J3
R5042 100/J3
R5043 100/J3
R5024 47/J3
TP5002 EYF6CU
C5026 0.1/UFV
C5027 0.1/UFV
C5028 0.1/UFV
C5029 0.1/UFV
C5030 0.1/UFV
+5A2
+6A
-5A2
-6A
REC_CURR
REC_FREQ
RF_PHS_PB
RF_MAG_PB
HS_PB
RF_PHS_RP
RF_MAG_RP
RP_HSW
PB_HSW
PB_SEL
R5022 D1H84734A008
R5044 D1H810140001
SC_ADJ
XCAN_H
RE_CURR2
RE_CURR1
+5D
D5051 MA142K-GTX
RY5051 VSY2176
QR5051 UN5211-TX
QR5052 UN5111-TX
R5051 10K/J3
R5052 47K/J3
IC5011 TC4S30FTE85L
C5051 0.1/UFV
C5052 0.1/UFV
TRAP_ON
RECMODE
EQ_HOLD
ATF_SP
REC1
REC_CTRL_1
REC_CTRL_2
EDIT_MODE
REC_SPA
IC5012 C0JBAE000238
IC5013 C0JBAC000267
C5053 0.1/UFV
C5054 0.1/UFV
R5053 D1H84734A008
R5054 100/J3
R5055 100/J3

COMPONENT NAME	F8:RF/EQ	01/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (1/7)	
	SCM112	


+5A1
HAOUT_PB_P
HAOUT_PB_N
R5101 D1H84704A008
Q5101 XN5531-TX
Q5102 2SD1979-TX
Q5103 2SD1979-TX
Q5104 XN5531-TX
IC5101 MC1495DR
IC5102 UPC1663G-E1
Q5105 XN5531-TX
Q5106 2SK508K51Z T2
Q5107 2SK508K51Z T2
Q5108 2SC3930-TX
Q5109 2SC3930-TX
-5A1
TRAP_ON
RF_MAG_PB
RF_PHS_PB
RF LPF
Q5110 2SC3930-TX
IC5103 UPC1663G-E1
Q5111 XN5531-TX
ATF PILOT LPF
Q5114 2SC3930-TX
Q5115 2SC3930-TX
IC5104 UPC1663G-E1
TP5005 EYF6CU
Q5113 2SC3930-TX
TP5006 EYF6CU
TG5003 EYF6CU
Q5112 2SC3930-TX
EQATF_PB
EQRF_PB
+5A2
Q5201 XN5531-TX
+6A
-6A
+3R3D
QR5201 UN5111-TX
BPF_SEL
IC5201 TC4S30FTE85L
IC5202 TC4S30FTE85L
Q5202 2SD1979-TX
Q5203 2SD1979-TX
Q5204 2SC3935-TX
Q5205 2SC3930-TX
R5229 D1H84704A008
IC5203 NJM1496V-TE1
IC5204 NJM082BV-TE1
TP5007 EYF6CU
PB_ENV
-5A2

COMPONENT NAME
F8:RF/EQ
02/07
CIRCUIT BOARD NO.
VEP85196A
DRAWING NO.
KR5585 (2/7)
SCM113


XCAN_OUT[0-7]
ATF_SPA
POW_DOWN
EQ_RESET
EQ_HOLD
HS_PB
EQ_CLK_PB
EQRF_PB
EQATF_PB
EQ_CLK
EQ_SDE
EQ_DATA
SSCLK
SSDE
SSDATA
EQ_ENV_OUT[0-7]
EQ_PB_OUT[0-7]
XCAN_IN[0-7]
PB_CLK
SUB_CLK_N
SUB_CLK_P
PB_CLK_N
PB_CLK_P
SUB_DAT_N
SUB_DAT_P
PB_DAT_N
PB_DAT_P
ENVHS
+3R3D
+3A1
+5A2
-5A2
IC5105
MN673796
IC5108
C0JBAF000448
IC5107
DS90LV047ATX
IC5003
C0JBAZ000545
IC5106
NJM082BV-TE1
R5303
D1H84734A008
R5358
D1H84704A008
Q5301
2SA1532-TX
Q5302
2SA1532-TX
Q5303
2SC3930-TX
TP5010
TP5009
TP5008
TP5303
TP5302
TP5301
TG5004
EYF6CU
CP5301
CP5302
CP5303
CP5304
CP5305
A
B
C
D
E
F
G
H
I
J
1
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4
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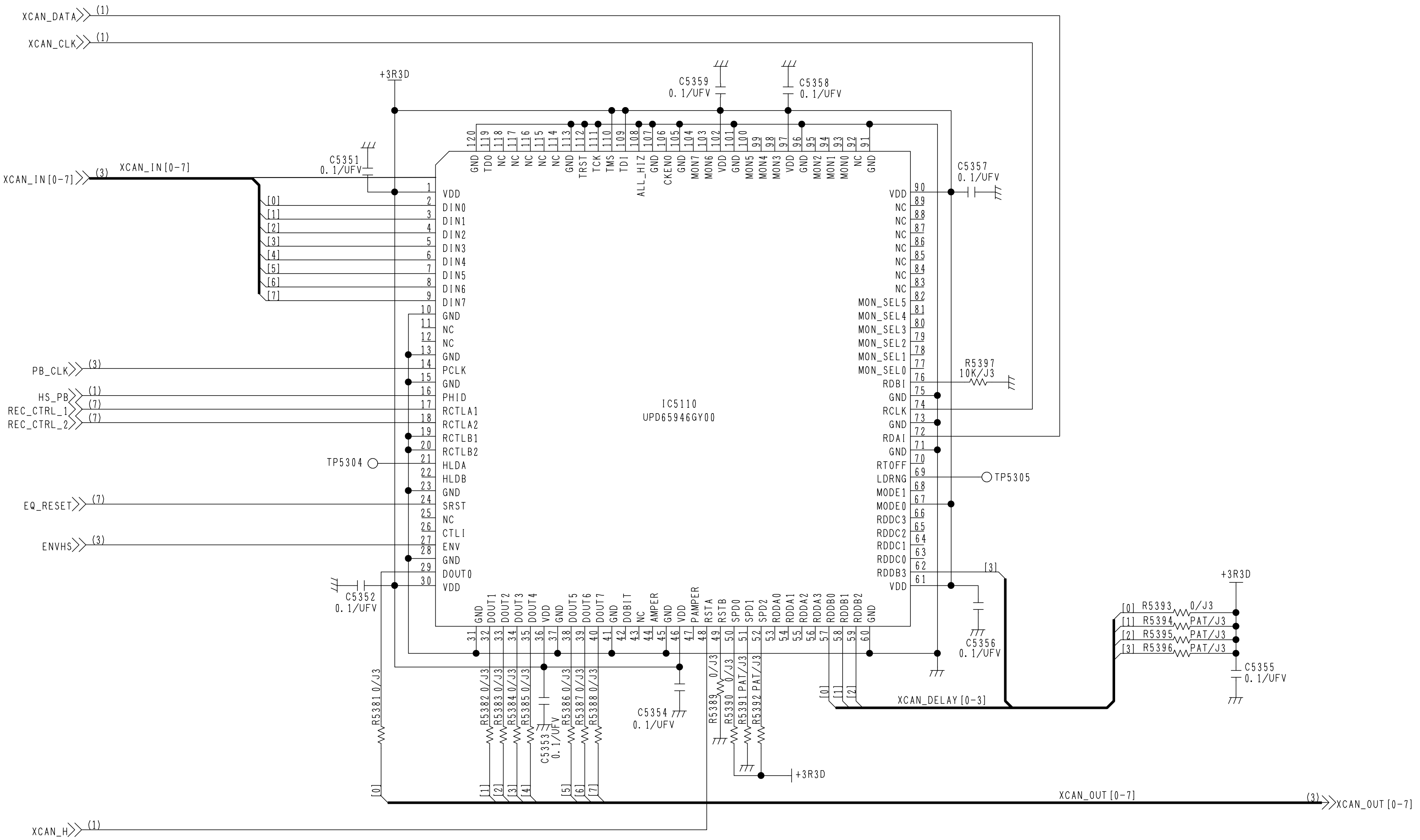
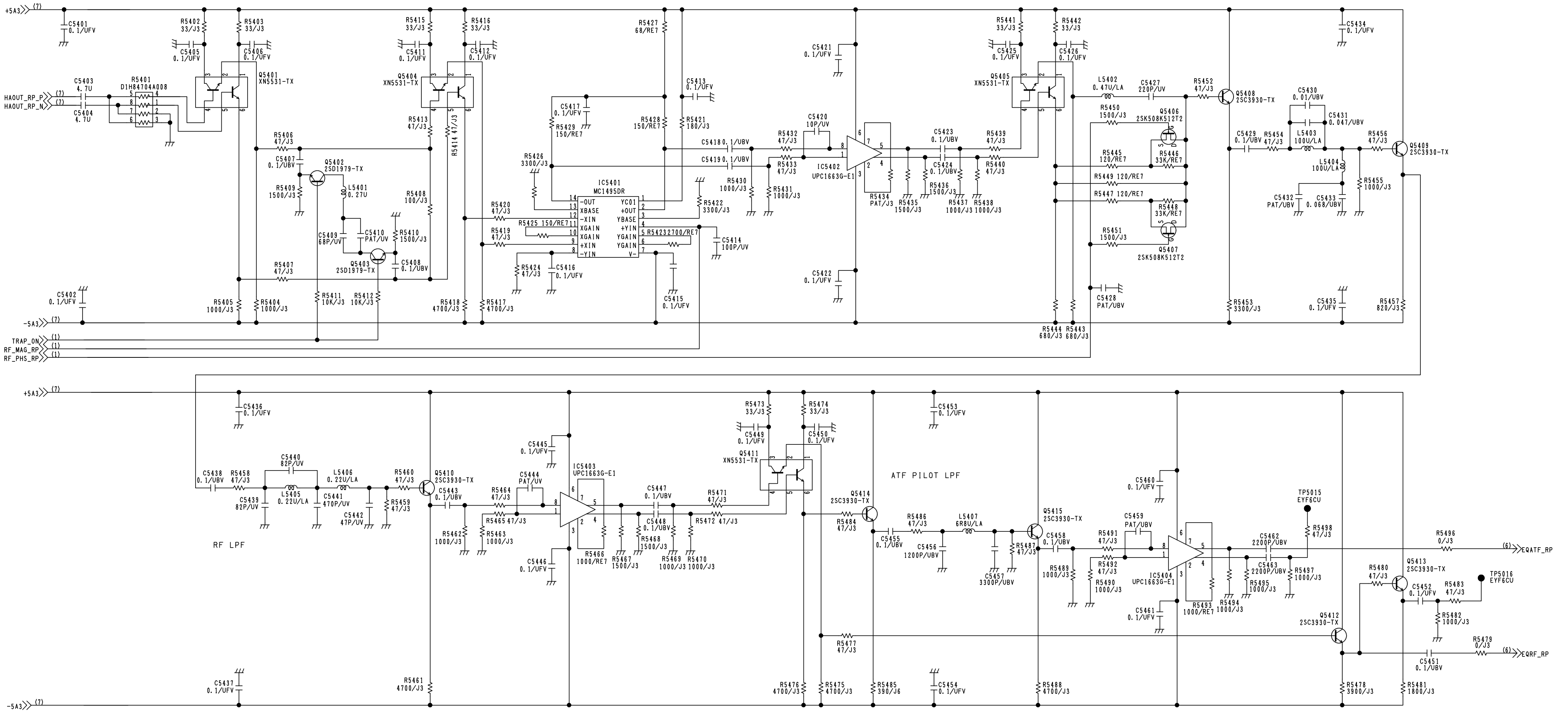
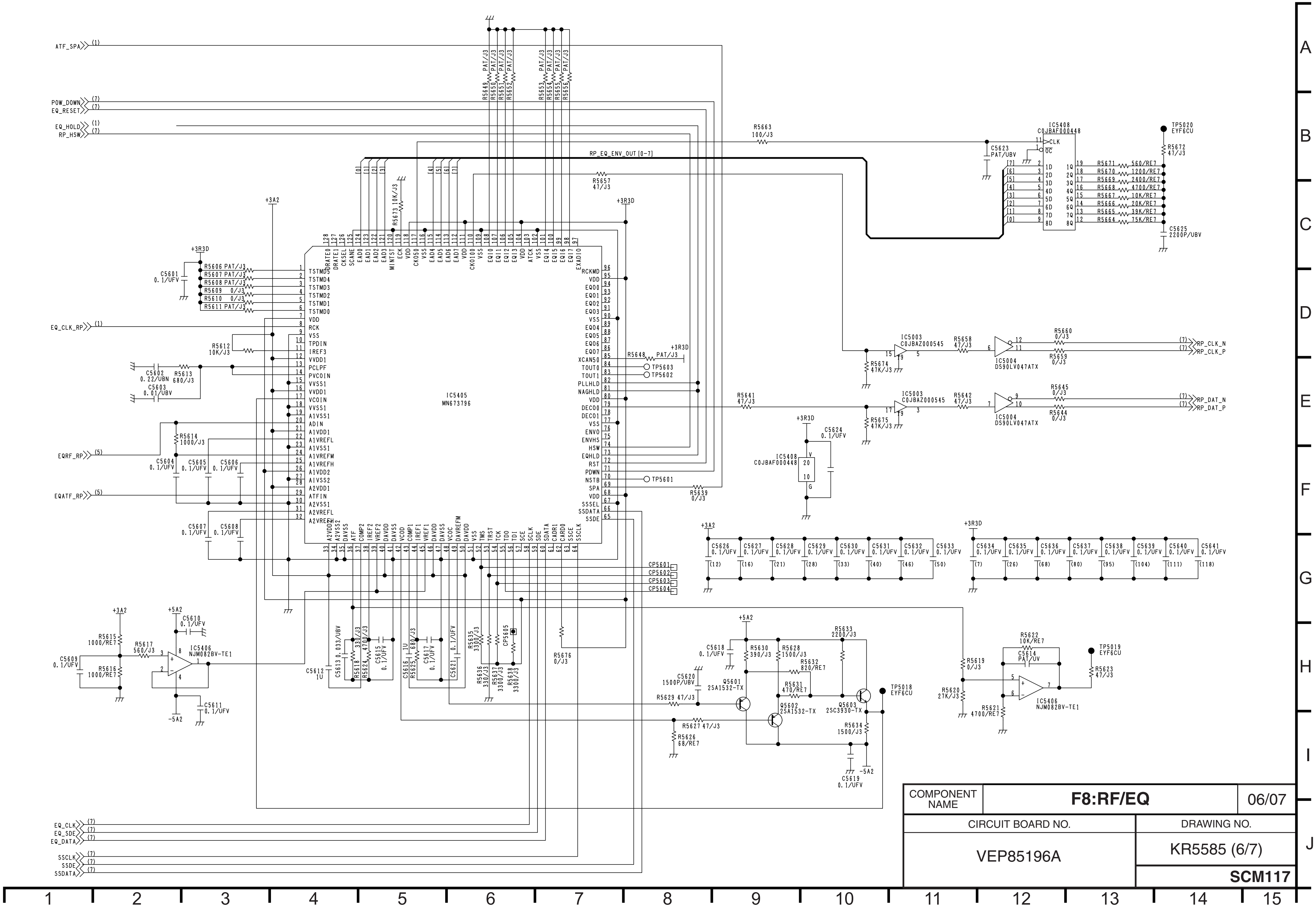
COMPONENT NAME	F8:RF/EQ	03/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (3/7)	
	SCM114	


XCAN_DATA (1)
XCAN_CLK (1)
+3R3D
C5359 0.1/UFV
C5358 0.1/UFV
C5351 0.1/UFV
C5357 0.1/UFV
XCAN_IN[0-7] (3)
XCAN_IN[0-7]
[0] [1] [2] [3] [4] [5] [6] [7]
1 VDD
2 DIN0
3 DIN1
4 DIN2
5 DIN3
6 DIN4
7 DIN5
8 DIN6
9 DIN7
10 GND
11 NC
12 NC
13 GND
14 PCLK
15 GND
16 PHID
17 RCTLA1
18 RCTLA2
19 RCTLB1
20 RCTLB2
21 HLDA
22 HLDB
23 GND
24 SRST
25 NC
26 CTLI
27 ENV
28 GND
29 DOUT0
30 VDD
31 GND
32 DOUT1
33 DOUT2
34 DOUT3
35 DOUT4
36 VDD
37 GND
38 DOUT5
39 DOUT6
40 DOUT7
41 GND
42 DOBIT
43 NC
44 AMPER
45 GND
46 VDD
47 PAMPER
48 RSTA
49 RSTB
50 SPD0
51 SPD1
52 SPD2
53 RDDA0
54 RDDA1
55 RDDA2
56 RDDA3
57 RDDB0
58 RDDB1
59 RDDB2
60 GND
61 VDD
62 RDDB3
63 RDDC0
64 RDDC1
65 RDDC2
66 RDDC3
67 MODE0
68 MODE1
69 LDRNG
70 RTOFF
71 GND
72 RDA1
73 GND
74 RCLK
75 GND
76 RDB1
77 MON_SEL0
78 MON_SEL1
79 MON_SEL2
80 MON_SEL3
81 MON_SEL4
82 MON_SEL5
83 NC
84 NC
85 NC
86 NC
87 NC
88 NC
89 NC
90 VDD
91 GND
92 NC
93 MON0
94 MON1
95 MON2
96 GND
97 VDD
98 MON3
99 MON4
100 MON5
101 GND
102 VDD
103 MON6
104 MON7
105 GND
106 CKEN0
107 GND
108 ALL_HIZ
109 TDI
110 TMS
111 TCK
112 TRST
113 GND
114 NC
115 NC
116 NC
117 NC
118 NC
119 TDO
120 GND
IC5110
UPD65946GY00
PB_CLK (3)
HS_PB (1)
REC_CTRL_1 (7)
REC_CTRL_2 (7)
TP5304
EQ_RESET (7)
ENVHS (3)
C5352 0.1/UFV
R5397 10K/J3
TP5305
[3]
+3R3D
[0] R5393 0/J3
[1] R5394 PAT/J3
[2] R5395 PAT/J3
[3] R5396 PAT/J3
C5355 0.1/UFV
C5356 0.1/UFV
[0] [1] [2]
XCAN_DELAY[0-3]
R5381 0/J3
R5382 0/J3
R5383 0/J3
R5384 0/J3
R5385 0/J3
C5353 0.1/UFV
R5386 0/J3
R5387 0/J3
R5388 0/J3
C5354 0.1/UFV
R5389 0/J3
R5390 0/J3
R5391 PAT/J3
R5392 PAT/J3
+3R3D
[0] [1] [2] [3] [4] [5] [6] [7]
XCAN_OUT[0-7]
(3) XCAN_OUT[0-7]
XCAN_H (1)

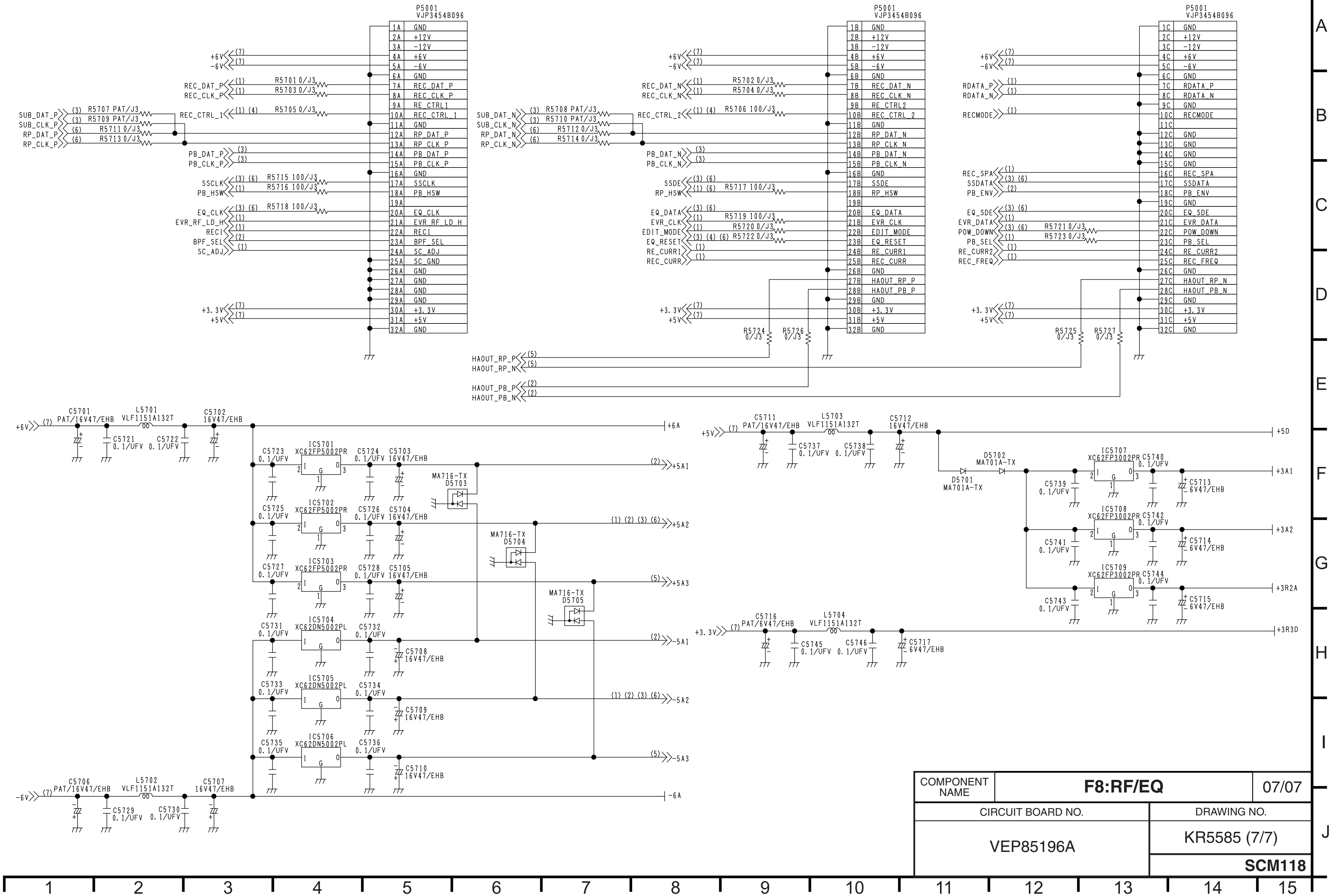
COMPONENT NAME	F8:RF/EQ	04/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (4/7)	
	SCM115	


+5A3 (7)
-5A3 (7)
HAOUT_RP_P (7)
HAOUT_RP_N (7)
TRAP_ON (1)
RF_MAG_RP (1)
RF_PHS_RP (1)
R5401 D1H84704A008
Q5401 XN5531-TX
Q5402 2SD1979-TX
Q5403 2SD1979-TX
Q5404 XN5531-TX
IC5401 MC1495DR
IC5402 UPC1663G-E1
Q5405 XN5531-TX
Q5406 2SK508K512T2
Q5407 2SK508K512T2
Q5408 2SC3930-TX
Q5409 2SC3930-TX
L5401 0.27U
L5402 0.47U/LA
L5403 100U/LA
L5404 100U/LA
RF LPF
L5405 0.22U/LA
L5406 0.22U/LA
Q5410 2SC3930-TX
IC5403 UPC1663G-E1
Q5411 XN5531-TX
ATF PILOT LPF
Q5414 2SC3930-TX
L5407 6R8U/LA
Q5415 2SC3930-TX
IC5404 UPC1663G-E1
TP5015 EYF6CU
TP5016 EYF6CU
Q5412 2SC3930-TX
Q5413 2SC3930-TX
(6) EQATF_RP
(6) EQRF_RP

COMPONENT NAME	F8:RF/EQ	05/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (5/7)	
	SCM116	


ATF_SPA (1)
POW_DOWN (7)
EQ_RESET (7)
EQ_HOLD (1)
RP_HSW (7)
EQ_CLK_RP (1)
EQRF_RP (5)
EQATF_RP (5)
EQ_CLK (7)
EQ_SDE (7)
EQ_DATA (7)
SSCLK (7)
SSDE (7)
SSDATA (7)
RP_EQ_ENV_OUT[0-7]
IC5405
MN673796
IC5408
C0JBAF000448
IC5003
C0JBAZ000545
IC5004
DS90LV047ATX
IC5406
NJM082BV-TE1
Q5601 2SA1532-TX
Q5602 2SA1532-TX
Q5603 2SC3930-TX
TP5020 EYF6CU
TP5019 EYF6CU
TP5018 EYF6CU
TP5601
TP5602
TP5603
CP5601
CP5602
CP5603
CP5604
CP5605
RP_CLK_N
RP_CLK_P
RP_DAT_N
RP_DAT_P
+3A2
+3R3D
+5A2
-5A2
R5663 100/J3
R5657 47/J3
R5673 10K/J3
R5612 10K/J3
R5613 680/J3
R5614 1000/J3
R5615 1000/RE7
R5616 1000/RE7
R5617 560/J3
R5648 PAT/J3
R5639 0/J3
R5641 47/J3
R5642 47/J3
R5658 47/J3
R5660 0/J3
R5659 0/J3
R5645 0/J3
R5644 0/J3
R5674 47K/J3
R5675 47K/J3
R5672 47/J3
R5671 560/RE7
R5670 1200/RE7
R5669 2400/RE7
R5668 4700/RE7
R5667 10K/RE7
R5666 20K/RE7
R5665 39K/RE7
R5664 75K/RE7
R5676 0/J3
R5618 330/J3
R5624 4700/J3
R5625 680/J3
R5635 3300/J3
R5636 330/J3
R5637 3300/J3
R5638 3300/J3
R5619 0/J3
R5620 27K/J3
R5621 4700/RE7
R5622 10K/RE7
R5623 47/J3
R5626 68/RE7
R5627 47/J3
R5628 1500/J3
R5629 47/J3
R5630 390/J3
R5631 470/RE7
R5632 820/RE7
R5633 2200/J3
R5634 1500/J3
C5601 0.1/UFV
C5602 0.22/UBN
C5603 0.01/UBV
C5604 0.1/UFV
C5605 0.1/UFV
C5606 0.1/UFV
C5607 0.1/UFV
C5608 0.1/UFV
C5609 0.1/UFV
C5610 0.1/UFV
C5611 0.1/UFV
C5612 1U
C5613 0.033/UBV
C5615 0.1/UFV
C5616 1U
C5617 0.1/UFV
C5618 0.1/UFV
C5619 0.1/UFV
C5620 1500P/UBV
C5621 0.1/UFV
C5614 PAT/UV
C5623 PAT/UBV
C5624 0.1/UFV
C5625 2200P/UBV
C5626–C5641 0.1/UFV
R5606 PAT/J3
R5607 PAT/J3
R5608 PAT/J3
R5609 0/J3
R5610 0/J3
R5611 PAT/J3
R5649–R5656 PAT/J3
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	F8:RF/EQ	06/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (6/7)	
	SCM117	


P5001
VJP3454B096
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A GND
7A REC_DAT_P
8A REC_CLK_P
9A RE_CTRL1
10A REC_CTRL_1
11A GND
12A RP_DAT_P
13A RP_CLK_P
14A PB_DAT_P
15A PB_CLK_P
16A GND
17A SSCLK
18A PB_HSW
19A
20A EQ_CLK
21A EVR_RF_LD_H
22A RECI
23A BPF_SEL
24A SC_ADJ
25A SC_GND
26A GND
27A GND
28A GND
29A GND
30A +3.3V
31A +5V
32A GND
R5701 0/J3
R5703 0/J3
R5705 0/J3
R5707 PAT/J3
R5709 PAT/J3
R5711 0/J3
R5713 0/J3
R5715 100/J3
R5716 100/J3
R5718 100/J3
SUB_DAT_P
SUB_CLK_P
RP_DAT_P
RP_CLK_P
REC_DAT_P
REC_CLK_P
REC_CTRL_1
PB_DAT_P
PB_CLK_P
SSCLK
PB_HSW
EQ_CLK
EVR_RF_LD_H
RECI
BPF_SEL
SC_ADJ
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B GND
7B REC_DAT_N
8B REC_CLK_N
9B RE_CTRL2
10B REC_CTRL_2
11B GND
12B RP_DAT_N
13B RP_CLK_N
14B PB_DAT_N
15B PB_CLK_N
16B GND
17B SSDE
18B RP_HSW
19B
20B EQ_DATA
21B EVR_CLK
22B EDIT_MODE
23B EQ_RESET
24B RE_CURR1
25B REC_CURR
26B GND
27B HAOUT_RP_P
28B HAOUT_PB_P
29B GND
30B +3.3V
31B +5V
32B GND
R5702 0/J3
R5704 0/J3
R5706 100/J3
R5708 PAT/J3
R5710 PAT/J3
R5712 0/J3
R5714 0/J3
R5717 100/J3
R5719 100/J3
R5720 0/J3
R5722 0/J3
R5724 0/J3
R5726 0/J3
SUB_DAT_N
SUB_CLK_N
RP_DAT_N
RP_CLK_N
REC_DAT_N
REC_CLK_N
REC_CTRL_2
PB_DAT_N
PB_CLK_N
SSDE
RP_HSW
EQ_DATA
EVR_CLK
EDIT_MODE
EQ_RESET
RE_CURR1
REC_CURR
HAOUT_RP_P
HAOUT_RP_N
HAOUT_PB_P
HAOUT_PB_N
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C GND
7C RDATA_P
8C RDATA_N
9C GND
10C RECMODE
11C
12C GND
13C GND
14C GND
15C GND
16C REC_SPA
17C SSDATA
18C PB_ENV
19C GND
20C EQ_SDE
21C EVR_DATA
22C POW_DOWN
23C PB_SEL
24C RE_CURR2
25C REC_FREQ
26C GND
27C HAOUT_RP_N
28C HAOUT_PB_N
29C GND
30C +3.3V
31C +5V
32C GND
R5721 0/J3
R5723 0/J3
R5725 0/J3
R5727 0/J3
RDATA_P
RDATA_N
RECMODE
REC_SPA
SSDATA
PB_ENV
EQ_SDE
EVR_DATA
POW_DOWN
PB_SEL
RE_CURR2
REC_FREQ
+6V
-6V
+3.3V
+5V
C5701 PAT/16V47/EHB
L5701 VLF1151A132T
C5702 16V47/EHB
C5721 0.1/UFV
C5722 0.1/UFV
+6A
IC5701 XC62FP5002PR
IC5702 XC62FP5002PR
IC5703 XC62FP5002PR
IC5704 XC62DN5002PL
IC5705 XC62DN5002PL
IC5706 XC62DN5002PL
C5723 0.1/UFV
C5724 0.1/UFV
C5703 16V47/EHB
C5725 0.1/UFV
C5726 0.1/UFV
C5704 16V47/EHB
C5727 0.1/UFV
C5728 0.1/UFV
C5705 16V47/EHB
C5731 0.1/UFV
C5732 0.1/UFV
C5708 16V47/EHB
C5733 0.1/UFV
C5734 0.1/UFV
C5709 16V47/EHB
C5735 0.1/UFV
C5736 0.1/UFV
C5710 16V47/EHB
MA716-TX D5703
MA716-TX D5704
MA716-TX D5705
+5A1
+5A2
+5A3
-5A1
-5A2
-5A3
C5706 PAT/16V47/EHB
L5702 VLF1151A132T
C5707 16V47/EHB
C5729 0.1/UFV
C5730 0.1/UFV
-6A
C5711 PAT/16V47/EHB
L5703 VLF1151A132T
C5712 16V47/EHB
C5737 0.1/UFV
C5738 0.1/UFV
+5D
D5702 MA701A-TX
D5701 MA701A-TX
IC5707 XC62FP3002PR
IC5708 XC62FP3002PR
IC5709 XC62FP3002PR
C5739 0.1/UFV
C5740 0.1/UFV
C5713 6V47/EHB
C5741 0.1/UFV
C5742 0.1/UFV
C5714 6V47/EHB
C5743 0.1/UFV
C5744 0.1/UFV
C5715 6V47/EHB
+3A1
+3A2
+3R2A
C5716 PAT/6V47/EHB
L5704 VLF1151A132T
C5745 0.1/UFV
C5746 0.1/UFV
C5717 6V47/EHB
+3R3D
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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8
9
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11
12
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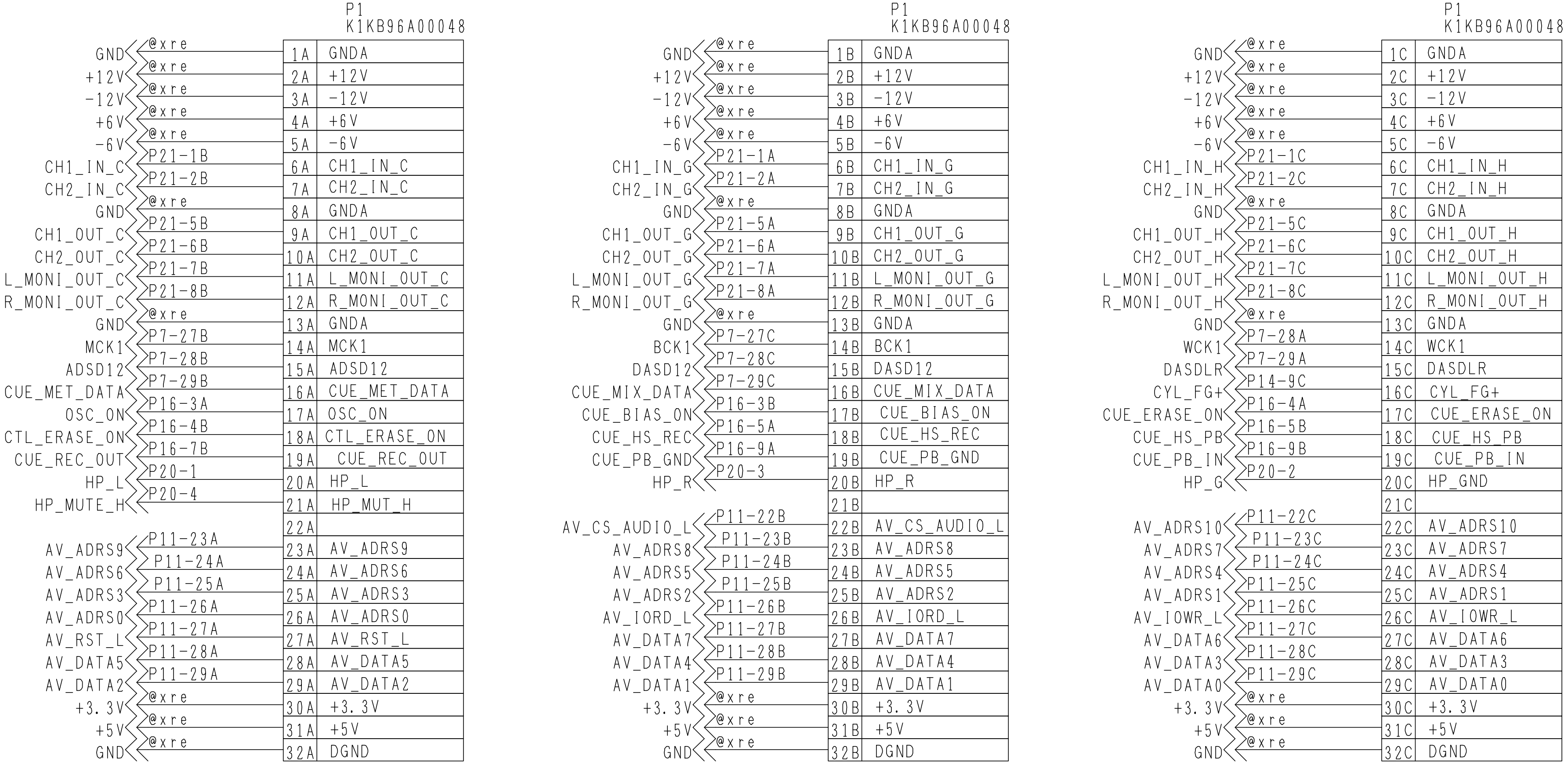
14
15

COMPONENT NAME	F8:RF/EQ	07/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (7/7)	
	SCM118	

F1 (AUDIO)



P1
K1KB96A00048

GND	@xre	1A	GNDA
+12V	@xre	2A	+12V
-12V	@xre	3A	-12V
+6V	@xre	4A	+6V
-6V	@xre	5A	-6V
CH1_IN_C	P21-1B	6A	CH1_IN_C
CH2_IN_C	P21-2B	7A	CH2_IN_C
GND	@xre	8A	GNDA
CH1_OUT_C	P21-5B	9A	CH1_OUT_C
CH2_OUT_C	P21-6B	10A	CH2_OUT_C
L_MONI_OUT_C	P21-7B	11A	L_MONI_OUT_C
R_MONI_OUT_C	P21-8B	12A	R_MONI_OUT_C
GND	@xre	13A	GNDA
MCK1	P7-27B	14A	MCK1
ADSD12	P7-28B	15A	ADSD12
CUE_MET_DATA	P7-29B	16A	CUE_MET_DATA
OSC_ON	P16-3A	17A	OSC_ON
CTL_ERASE_ON	P16-4B	18A	CTL_ERASE_ON
CUE_REC_OUT	P16-7B	19A	CUE_REC_OUT
HP_L	P20-1	20A	HP_L
HP_MUTE_H	P20-4	21A	HP_MUT_H
		22A	
AV_ADRS9	P11-23A	23A	AV_ADRS9
AV_ADRS6	P11-24A	24A	AV_ADRS6
AV_ADRS3	P11-25A	25A	AV_ADRS3
AV_ADRS0	P11-26A	26A	AV_ADRS0
AV_RST_L	P11-27A	27A	AV_RST_L
AV_DATA5	P11-28A	28A	AV_DATA5
AV_DATA2	P11-29A	29A	AV_DATA2
+3. 3V	@xre	30A	+3. 3V
+5V	@xre	31A	+5V
GND	@xre	32A	DGND

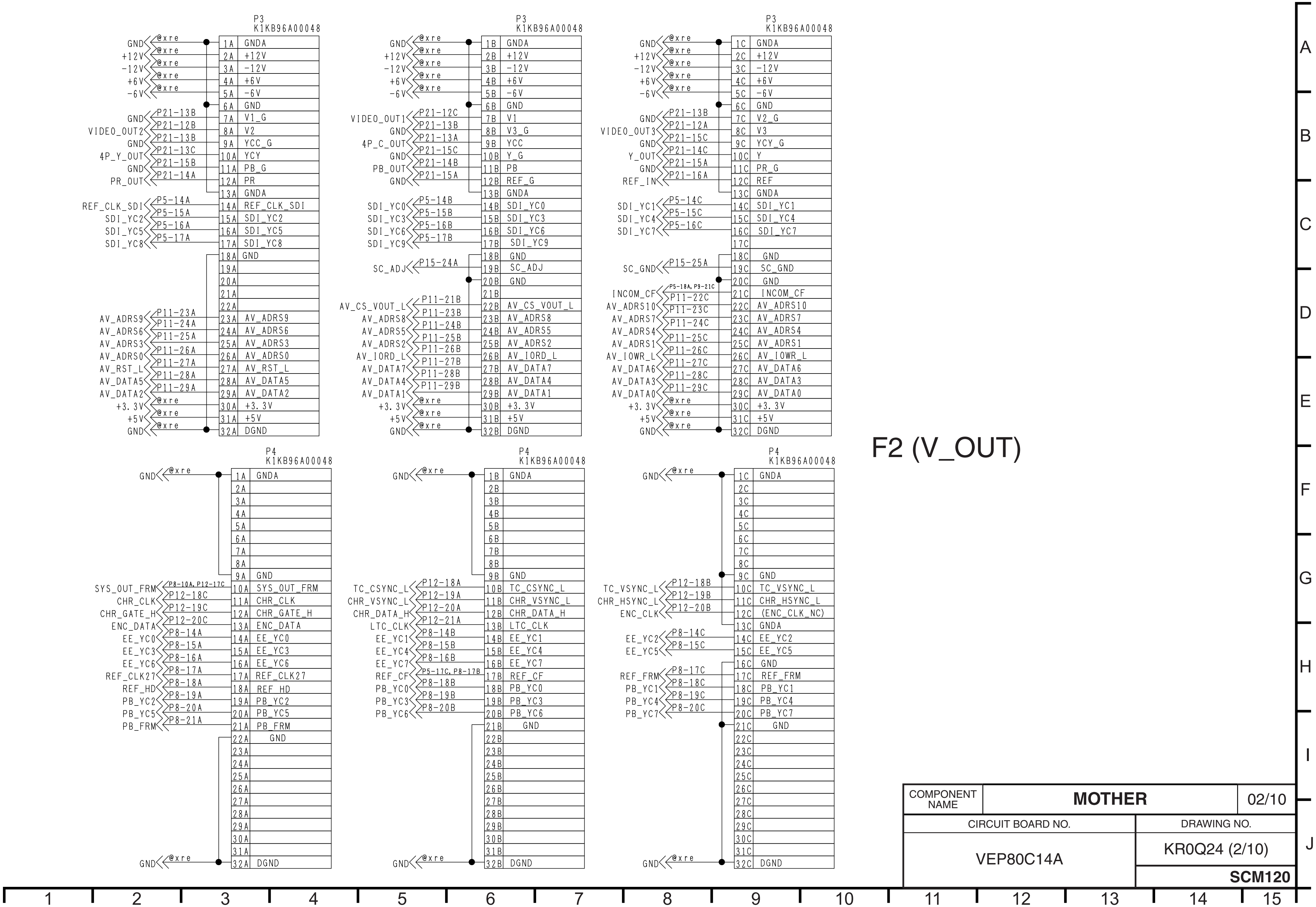
P1
K1KB96A00048

GND	@xre	1B	GNDA
+12V	@xre	2B	+12V
-12V	@xre	3B	-12V
+6V	@xre	4B	+6V
-6V	@xre	5B	-6V
CH1_IN_G	P21-1A	6B	CH1_IN_G
CH2_IN_G	P21-2A	7B	CH2_IN_G
GND	@xre	8B	GNDA
CH1_OUT_G	P21-5A	9B	CH1_OUT_G
CH2_OUT_G	P21-6A	10B	CH2_OUT_G
L_MONI_OUT_G	P21-7A	11B	L_MONI_OUT_G
R_MONI_OUT_G	P21-8A	12B	R_MONI_OUT_G
GND	@xre	13B	GNDA
BCK1	P7-27C	14B	BCK1
DASD12	P7-28C	15B	DASD12
CUE_MIX_DATA	P7-29C	16B	CUE_MIX_DATA
CUE_BIAS_ON	P16-3B	17B	CUE_BIAS_ON
CUE_HS_REC	P16-5A	18B	CUE_HS_REC
CUE_PB_GND	P16-9A	19B	CUE_PB_GND
HP_R	P20-3	20B	HP_R
		21B	
AV_CS_AUDIO_L	P11-22B	22B	AV_CS_AUDIO_L
AV_ADRS8	P11-23B	23B	AV_ADRS8
AV_ADRS5	P11-24B	24B	AV_ADRS5
AV_ADRS2	P11-25B	25B	AV_ADRS2
AV_IORD_L	P11-26B	26B	AV_IORD_L
AV_DATA7	P11-27B	27B	AV_DATA7
AV_DATA4	P11-28B	28B	AV_DATA4
AV_DATA1	P11-29B	29B	AV_DATA1
+3. 3V	@xre	30B	+3. 3V
+5V	@xre	31B	+5V
GND	@xre	32B	DGND

P1
K1KB96A00048

GND	@xre	1C	GNDA
+12V	@xre	2C	+12V
-12V	@xre	3C	-12V
+6V	@xre	4C	+6V
-6V	@xre	5C	-6V
CH1_IN_H	P21-1C	6C	CH1_IN_H
CH2_IN_H	P21-2C	7C	CH2_IN_H
GND	@xre	8C	GNDA
CH1_OUT_H	P21-5C	9C	CH1_OUT_H
CH2_OUT_H	P21-6C	10C	CH2_OUT_H
L_MONI_OUT_H	P21-7C	11C	L_MONI_OUT_H
R_MONI_OUT_H	P21-8C	12C	R_MONI_OUT_H
GND	@xre	13C	GNDA
WCK1	P7-28A	14C	WCK1
DASDLR	P7-29A	15C	DASDLR
CYL_FG+	P14-9C	16C	CYL_FG+
CUE_ERASE_ON	P16-4A	17C	CUE_ERASE_ON
CUE_HS_PB	P16-5B	18C	CUE_HS_PB
CUE_PB_IN	P16-9B	19C	CUE_PB_IN
HP_G	P20-2	20C	HP_GND
		21C	
AV_ADRS10	P11-22C	22C	AV_ADRS10
AV_ADRS7	P11-23C	23C	AV_ADRS7
AV_ADRS4	P11-24C	24C	AV_ADRS4
AV_ADRS1	P11-25C	25C	AV_ADRS1
AV_IOWR_L	P11-26C	26C	AV_IOWR_L
AV_DATA6	P11-27C	27C	AV_DATA6
AV_DATA3	P11-28C	28C	AV_DATA3
AV_DATA0	P11-29C	29C	AV_DATA0
+3. 3V	@xre	30C	+3. 3V
+5V	@xre	31C	+5V
GND	@xre	32C	DGND

COMPONENT NAME	**MOTHER**	01/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (1/10)	
	SCM119	


P3 K1KB96A00048
GND @xre 1A GNDA
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
GND P21-13B 7A V1_G
VIDEO_OUT2 P21-12B 8A V2
GND P21-13B 9A YCC_G
4P_Y_OUT P21-13C 10A YCY
GND P21-15B 11A PB_G
PR_OUT P21-14A 12A PR
13A GNDA
REF_CLK_SDI P5-14A 14A REF_CLK_SDI
SDI_YC2 P5-15A 15A SDI_YC2
SDI_YC5 P5-16A 16A SDI_YC5
SDI_YC8 P5-17A 17A SDI_YC8
18A GND
19A
20A
21A
22A
AV_ADRS9 P11-23A 23A AV_ADRS9
AV_ADRS6 P11-24A 24A AV_ADRS6
AV_ADRS3 P11-25A 25A AV_ADRS3
AV_ADRS0 P11-26A 26A AV_ADRS0
AV_RST_L P11-27A 27A AV_RST_L
AV_DATA5 P11-28A 28A AV_DATA5
AV_DATA2 P11-29A 29A AV_DATA2
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A DGND
P3 K1KB96A00048
GND @xre 1B GNDA
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
VIDEO_OUT1 P21-12C 7B V1
GND P21-13B 8B V3_G
4P_C_OUT P21-13A 9B YCC
GND P21-15C 10B Y_G
PB_OUT P21-14B 11B PB
GND P21-15A 12B REF_G
13B GNDA
SDI_YC0 P5-14B 14B SDI_YC0
SDI_YC3 P5-15B 15B SDI_YC3
SDI_YC6 P5-16B 16B SDI_YC6
SDI_YC9 P5-17B 17B SDI_YC9
18B GND
SC_ADJ P15-24A 19B SC_ADJ
20B GND
21B
AV_CS_VOUT_L P11-21B 22B AV_CS_VOUT_L
AV_ADRS8 P11-23B 23B AV_ADRS8
AV_ADRS5 P11-24B 24B AV_ADRS5
AV_ADRS2 P11-25B 25B AV_ADRS2
AV_IORD_L P11-26B 26B AV_IORD_L
AV_DATA7 P11-27B 27B AV_DATA7
AV_DATA4 P11-28B 28B AV_DATA4
AV_DATA1 P11-29B 29B AV_DATA1
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B DGND
P3 K1KB96A00048
GND @xre 1C GNDA
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
GND P21-13B 7C V2_G
VIDEO_OUT3 P21-12A 8C V3
GND P21-15C 9C YCY_G
Y_OUT P21-14C 10C Y
GND P21-15A 11C PR_G
REF_IN P21-16A 12C REF
13C GNDA
SDI_YC1 P5-14C 14C SDI_YC1
SDI_YC4 P5-15C 15C SDI_YC4
SDI_YC7 P5-16C 16C SDI_YC7
17C
18C GND
SC_GND P15-25A 19C SC_GND
20C GND
INCOM_CF P5-18A, P9-21C 21C INCOM_CF
AV_ADRS10 P11-22C 22C AV_ADRS10
AV_ADRS7 P11-23C 23C AV_ADRS7
AV_ADRS4 P11-24C 24C AV_ADRS4
AV_ADRS1 P11-25C 25C AV_ADRS1
AV_IOWR_L P11-26C 26C AV_IOWR_L
AV_DATA6 P11-27C 27C AV_DATA6
AV_DATA3 P11-28C 28C AV_DATA3
AV_DATA0 P11-29C 29C AV_DATA0
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C DGND
P4 K1KB96A00048
GND @xre 1A GNDA
2A
3A
4A
5A
6A
7A
8A
9A GND
SYS_OUT_FRM P8-10A, P12-17C 10A SYS_OUT_FRM
CHR_CLK P12-18C 11A CHR_CLK
CHR_GATE_H P12-19C 12A CHR_GATE_H
ENC_DATA P12-20C 13A ENC_DATA
EE_YC0 P8-14A 14A EE_YC0
EE_YC3 P8-15A 15A EE_YC3
EE_YC6 P8-16A 16A EE_YC6
REF_CLK27 P8-17A 17A REF_CLK27
REF_HD P8-18A 18A REF_HD
PB_YC2 P8-19A 19A PB_YC2
PB_YC5 P8-20A 20A PB_YC5
PB_FRM P8-21A 21A PB_FRM
22A GND
23A
24A
25A
26A
27A
28A
29A
30A
31A
GND @xre 32A DGND
P4 K1KB96A00048
GND @xre 1B GNDA
2B
3B
4B
5B
6B
7B
8B
9B GND
TC_CSYNC_L P12-18A 10B TC_CSYNC_L
CHR_VSYNC_L P12-19A 11B CHR_VSYNC_L
CHR_DATA_H P12-20A 12B CHR_DATA_H
LTC_CLK P12-21A 13B LTC_CLK
EE_YC1 P8-14B 14B EE_YC1
EE_YC4 P8-15B 15B EE_YC4
EE_YC7 P8-16B 16B EE_YC7
REF_CF P5-17C, P8-17B 17B REF_CF
PB_YC0 P8-18B 18B PB_YC0
PB_YC3 P8-19B 19B PB_YC3
PB_YC6 P8-20B 20B PB_YC6
21B GND
22B
23B
24B
25B
26B
27B
28B
29B
30B
31B
GND @xre 32B DGND
P4 K1KB96A00048
GND @xre 1C GNDA
2C
3C
4C
5C
6C
7C
8C
9C GND
TC_VSYNC_L P12-18B 10C TC_VSYNC_L
CHR_HSYNC_L P12-19B 11C CHR_HSYNC_L
ENC_CLK P12-20B 12C (ENC_CLK_NC)
13C GNDA
EE_YC2 P8-14C 14C EE_YC2
EE_YC5 P8-15C 15C EE_YC5
16C GND
REF_FRM P8-17C 17C REF_FRM
PB_YC1 P8-18C 18C PB_YC1
PB_YC4 P8-19C 19C PB_YC4
PB_YC7 P8-20C 20C PB_YC7
21C GND
22C
23C
24C
25C
26C
27C
28C
29C
30C
31C
GND @xre 32C DGND
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
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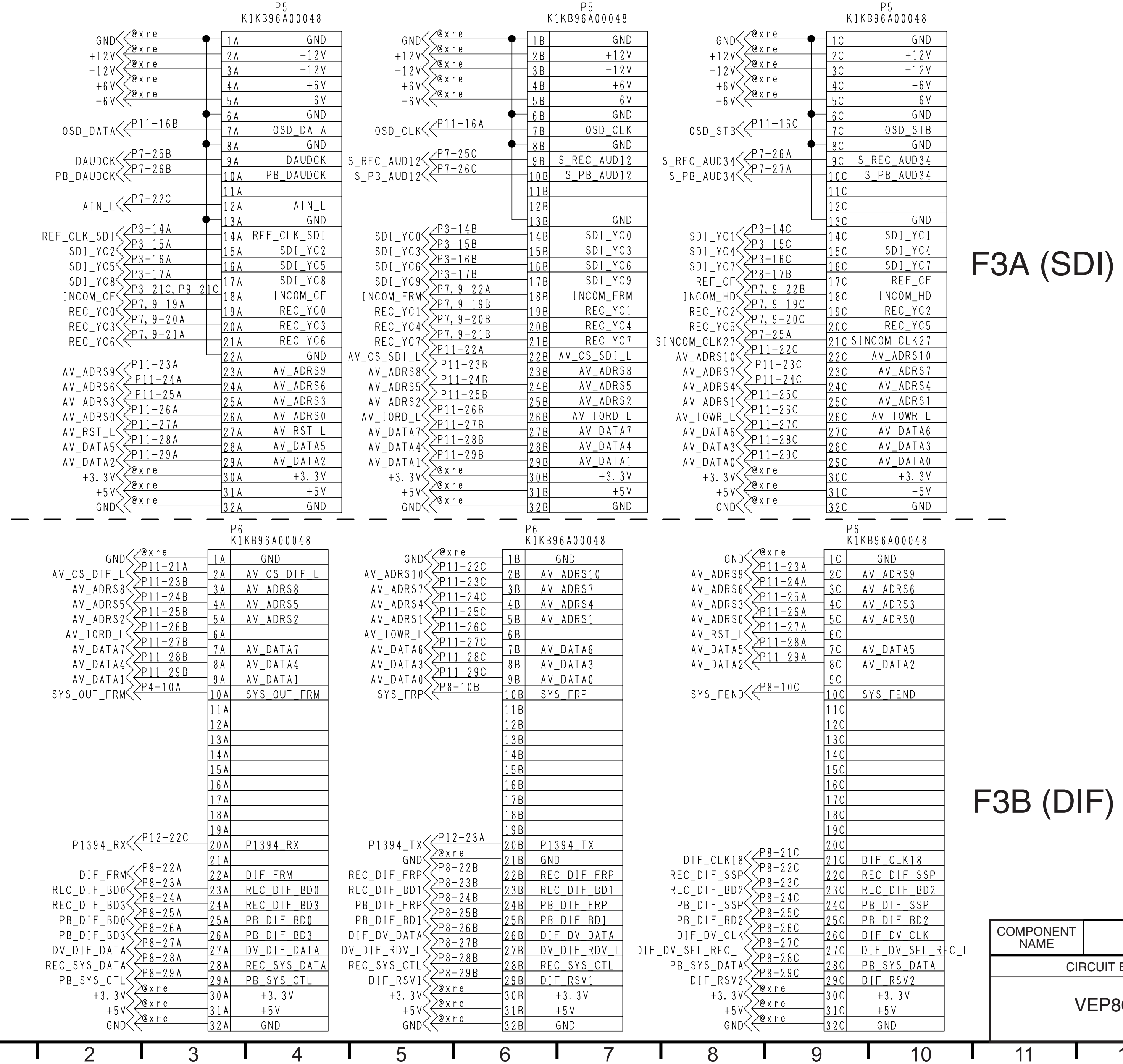
F2 (V_OUT)

COMPONENT NAME	**MOTHER**	02/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (2/10)	
	SCM120	


F3A (SDI)
P5
K1KB96A00048
GND @xre 1A GND
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
OSD_DATA P11-16B 7A OSD_DATA
8A GND
DAUDCK P7-25B 9A DAUDCK
PB_DAUDCK P7-26B 10A PB_DAUDCK
11A
AIN_L P7-22C 12A AIN_L
13A GND
REF_CLK_SDI P3-14A 14A REF_CLK_SDI
SDI_YC2 P3-15A 15A SDI_YC2
SDI_YC5 P3-16A 16A SDI_YC5
SDI_YC8 P3-17A 17A SDI_YC8
INCOM_CF P3-21C, P9-21C 18A INCOM_CF
REC_YC0 P7, 9-19A 19A REC_YC0
REC_YC3 P7, 9-20A 20A REC_YC3
REC_YC6 P7, 9-21A 21A REC_YC6
22A GND
AV_ADRS9 P11-23A 23A AV_ADRS9
AV_ADRS6 P11-24A 24A AV_ADRS6
AV_ADRS3 P11-25A 25A AV_ADRS3
AV_ADRS0 P11-26A 26A AV_ADRS0
AV_RST_L P11-27A 27A AV_RST_L
AV_DATA5 P11-28A 28A AV_DATA5
AV_DATA2 P11-29A 29A AV_DATA2
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P5
K1KB96A00048
GND @xre 1B GND
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
OSD_CLK P11-16A 7B OSD_CLK
8B GND
S_REC_AUD12 P7-25C 9B S_REC_AUD12
S_PB_AUD12 P7-26C 10B S_PB_AUD12
11B
12B
13B GND
SDI_YC0 P3-14B 14B SDI_YC0
SDI_YC3 P3-15B 15B SDI_YC3
SDI_YC6 P3-16B 16B SDI_YC6
SDI_YC9 P3-17B 17B SDI_YC9
INCOM_FRM P7, 9-22A 18B INCOM_FRM
REC_YC1 P7, 9-19B 19B REC_YC1
REC_YC4 P7, 9-20B 20B REC_YC4
REC_YC7 P7, 9-21B 21B REC_YC7
AV_CS_SDI_L P11-22A 22B AV_CS_SDI_L
AV_ADRS8 P11-23B 23B AV_ADRS8
AV_ADRS5 P11-24B 24B AV_ADRS5
AV_ADRS2 P11-25B 25B AV_ADRS2
AV_IORD_L P11-26B 26B AV_IORD_L
AV_DATA7 P11-27B 27B AV_DATA7
AV_DATA4 P11-28B 28B AV_DATA4
AV_DATA1 P11-29B 29B AV_DATA1
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P5
K1KB96A00048
GND @xre 1C GND
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
OSD_STB P11-16C 7C OSD_STB
8C GND
S_REC_AUD34 P7-26A 9C S_REC_AUD34
S_PB_AUD34 P7-27A 10C S_PB_AUD34
11C
12C
13C GND
SDI_YC1 P3-14C 14C SDI_YC1
SDI_YC4 P3-15C 15C SDI_YC4
SDI_YC7 P3-16C 16C SDI_YC7
REF_CF P8-17B 17C REF_CF
INCOM_HD P7, 9-22B 18C INCOM_HD
REC_YC2 P7, 9-19C 19C REC_YC2
REC_YC5 P7, 9-20C 20C REC_YC5
SINCOM_CLK27 P7-25A 21C SINCOM_CLK27
AV_ADRS10 P11-22C 22C AV_ADRS10
AV_ADRS7 P11-23C 23C AV_ADRS7
AV_ADRS4 P11-24C 24C AV_ADRS4
AV_ADRS1 P11-25C 25C AV_ADRS1
AV_IOWR_L P11-26C 26C AV_IOWR_L
AV_DATA6 P11-27C 27C AV_DATA6
AV_DATA3 P11-28C 28C AV_DATA3
AV_DATA0 P11-29C 29C AV_DATA0
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND
F3B (DIF)
P6
K1KB96A00048
GND @xre 1A GND
AV_CS_DIF_L P11-21A 2A AV_CS_DIF_L
AV_ADRS8 P11-23B 3A AV_ADRS8
AV_ADRS5 P11-24B 4A AV_ADRS5
AV_ADRS2 P11-25B 5A AV_ADRS2
AV_IORD_L P11-26B 6A
AV_DATA7 P11-27B 7A AV_DATA7
AV_DATA4 P11-28B 8A AV_DATA4
AV_DATA1 P11-29B 9A AV_DATA1
SYS_OUT_FRM P4-10A 10A SYS_OUT_FRM
11A
12A
13A
14A
15A
16A
17A
18A
19A
P1394_RX P12-22C 20A P1394_RX
21A
DIF_FRM P8-22A 22A DIF_FRM
REC_DIF_BD0 P8-23A 23A REC_DIF_BD0
REC_DIF_BD3 P8-24A 24A REC_DIF_BD3
PB_DIF_BD0 P8-25A 25A PB_DIF_BD0
PB_DIF_BD3 P8-26A 26A PB_DIF_BD3
DV_DIF_DATA P8-27A 27A DV_DIF_DATA
REC_SYS_DATA P8-28A 28A REC_SYS_DATA
PB_SYS_CTL P8-29A 29A PB_SYS_CTL
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P6
K1KB96A00048
GND @xre 1B GND
AV_ADRS10 P11-22C 2B AV_ADRS10
AV_ADRS7 P11-23C 3B AV_ADRS7
AV_ADRS4 P11-24C 4B AV_ADRS4
AV_ADRS1 P11-25C 5B AV_ADRS1
AV_IOWR_L P11-26C 6B
AV_DATA6 P11-27C 7B AV_DATA6
AV_DATA3 P11-28C 8B AV_DATA3
AV_DATA0 P11-29C 9B AV_DATA0
SYS_FRP P8-10B 10B SYS_FRP
11B
12B
13B
14B
15B
16B
17B
18B
19B
P1394_TX P12-23A 20B P1394_TX
GND @xre 21B GND
REC_DIF_FRP P8-22B 22B REC_DIF_FRP
REC_DIF_BD1 P8-23B 23B REC_DIF_BD1
PB_DIF_FRP P8-24B 24B PB_DIF_FRP
PB_DIF_BD1 P8-25B 25B PB_DIF_BD1
DIF_DV_DATA P8-26B 26B DIF_DV_DATA
DV_DIF_RDV_L P8-27B 27B DV_DIF_RDV_L
REC_SYS_CTL P8-28B 28B REC_SYS_CTL
DIF_RSV1 P8-29B 29B DIF_RSV1
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P6
K1KB96A00048
GND @xre 1C GND
AV_ADRS9 P11-23A 2C AV_ADRS9
AV_ADRS6 P11-24A 3C AV_ADRS6
AV_ADRS3 P11-25A 4C AV_ADRS3
AV_ADRS0 P11-26A 5C AV_ADRS0
AV_RST_L P11-27A 6C
AV_DATA5 P11-28A 7C AV_DATA5
AV_DATA2 P11-29A 8C AV_DATA2
9C
SYS_FEND P8-10C 10C SYS_FEND
11C
12C
13C
14C
15C
16C
17C
18C
19C
20C
DIF_CLK18 P8-21C 21C DIF_CLK18
REC_DIF_SSP P8-22C 22C REC_DIF_SSP
REC_DIF_BD2 P8-23C 23C REC_DIF_BD2
PB_DIF_SSP P8-24C 24C PB_DIF_SSP
PB_DIF_BD2 P8-25C 25C PB_DIF_BD2
DIF_DV_CLK P8-26C 26C DIF_DV_CLK
DIF_DV_SEL_REC_L P8-27C 27C DIF_DV_SEL_REC_L
PB_SYS_DATA P8-28C 28C PB_SYS_DATA
DIF_RSV2 P8-29C 29C DIF_RSV2
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND
A
B
C
D
E
F
G
H
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J
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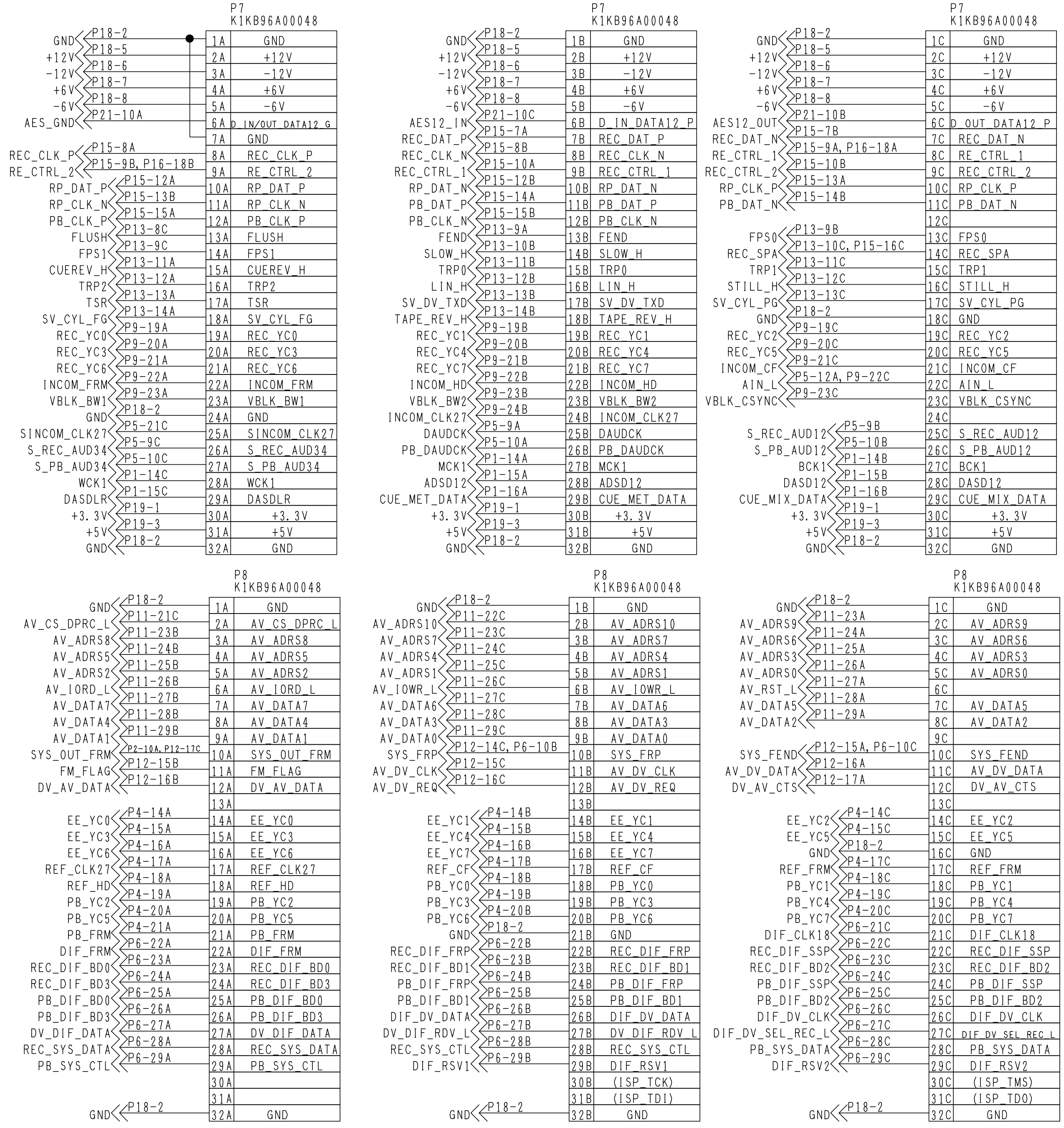
COMPONENT NAME	**MOTHER**	03/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (3/10)	
	SCM121	



P7
K1KB96A00048

Signal	Connection	Pin	Pin name
GND	P18-2	1A	GND
+12V	P18-5	2A	+12V
-12V	P18-6	3A	-12V
+6V	P18-7	4A	+6V
-6V	P18-8	5A	-6V
AES_GND	P21-10A	6A	D_IN/OUT_DATA12_G
		7A	GND
REC_CLK_P	P15-8A	8A	REC_CLK_P
RE_CTRL_2	P15-9B, P16-18B	9A	RE_CTRL_2
RP_DAT_P	P15-12A	10A	RP_DAT_P
RP_CLK_N	P15-13B	11A	RP_CLK_N
PB_CLK_P	P15-15A	12A	PB_CLK_P
FLUSH	P13-8C	13A	FLUSH
FPS1	P13-9C	14A	FPS1
CUEREV_H	P13-11A	15A	CUEREV_H
TRP2	P13-12A	16A	TRP2
TSR	P13-13A	17A	TSR
SV_CYL_FG	P13-14A	18A	SV_CYL_FG
REC_YC0	P9-19A	19A	REC_YC0
REC_YC3	P9-20A	20A	REC_YC3
REC_YC6	P9-21A	21A	REC_YC6
INCOM_FRM	P9-22A	22A	INCOM_FRM
VBLK_BW1	P9-23A	23A	VBLK_BW1
GND	P18-2	24A	GND
SINCOM_CLK27	P5-21C	25A	SINCOM_CLK27
S_REC_AUD34	P5-9C	26A	S_REC_AUD34
S_PB_AUD34	P5-10C	27A	S_PB_AUD34
WCK1	P1-14C	28A	WCK1
DASDLR	P1-15C	29A	DASDLR
+3. 3V	P19-1	30A	+3. 3V
+5V	P19-3	31A	+5V
GND	P18-2	32A	GND

P7
K1KB96A00048

Signal	Connection	Pin	Pin name
GND	P18-2	1B	GND
+12V	P18-5	2B	+12V
-12V	P18-6	3B	-12V
+6V	P18-7	4B	+6V
-6V	P18-8	5B	-6V
AES12_IN	P21-10C	6B	D_IN_DATA12_P
REC_DAT_P	P15-7A	7B	REC_DAT_P
REC_CLK_N	P15-8B	8B	REC_CLK_N
REC_CTRL_1	P15-10A	9B	REC_CTRL_1
RP_DAT_N	P15-12B	10B	RP_DAT_N
PB_DAT_P	P15-14A	11B	PB_DAT_P
PB_CLK_N	P15-15B	12B	PB_CLK_N
FEND	P13-9A	13B	FEND
SLOW_H	P13-10B	14B	SLOW_H
TRP0	P13-11B	15B	TRP0
LIN_H	P13-12B	16B	LIN_H
SV_DV_TXD	P13-13B	17B	SV_DV_TXD
TAPE_REV_H	P13-14B	18B	TAPE_REV_H
REC_YC1	P9-19B	19B	REC_YC1
REC_YC4	P9-20B	20B	REC_YC4
REC_YC7	P9-21B	21B	REC_YC7
INCOM_HD	P9-22B	22B	INCOM_HD
VBLK_BW2	P9-23B	23B	VBLK_BW2
INCOM_CLK27	P9-24B	24B	INCOM_CLK27
DAUDCK	P5-9A	25B	DAUDCK
PB_DAUDCK	P5-10A	26B	PB_DAUDCK
MCK1	P1-14A	27B	MCK1
ADSD12	P1-15A	28B	ADSD12
CUE_MET_DATA	P1-16A	29B	CUE_MET_DATA
+3. 3V	P19-1	30B	+3. 3V
+5V	P19-3	31B	+5V
GND	P18-2	32B	GND

P7
K1KB96A00048

Signal	Connection	Pin	Pin name
GND	P18-2	1C	GND
+12V	P18-5	2C	+12V
-12V	P18-6	3C	-12V
+6V	P18-7	4C	+6V
-6V	P18-8	5C	-6V
AES12_OUT	P21-10B	6C	D_OUT_DATA12_P
REC_DAT_N	P15-7B	7C	REC_DAT_N
RE_CTRL_1	P15-9A, P16-18A	8C	RE_CTRL_1
REC_CTRL_2	P15-10B	9C	REC_CTRL_2
RP_CLK_P	P15-13A	10C	RP_CLK_P
PB_DAT_N	P15-14B	11C	PB_DAT_N
		12C	
FPS0	P13-9B	13C	FPS0
REC_SPA	P13-10C, P15-16C	14C	REC_SPA
TRP1	P13-11C	15C	TRP1
STILL_H	P13-12C	16C	STILL_H
SV_CYL_PG	P13-13C	17C	SV_CYL_PG
GND	P18-2	18C	GND
REC_YC2	P9-19C	19C	REC_YC2
REC_YC5	P9-20C	20C	REC_YC5
INCOM_CF	P9-21C	21C	INCOM_CF
AIN_L	P5-12A, P9-22C	22C	AIN_L
VBLK_CSYNC	P9-23C	23C	VBLK_CSYNC
		24C	
S_REC_AUD12	P5-9B	25C	S_REC_AUD12
S_PB_AUD12	P5-10B	26C	S_PB_AUD12
BCK1	P1-14B	27C	BCK1
DASD12	P1-15B	28C	DASD12
CUE_MIX_DATA	P1-16B	29C	CUE_MIX_DATA
+3. 3V	P19-1	30C	+3. 3V
+5V	P19-3	31C	+5V
GND	P18-2	32C	GND

P8
K1KB96A00048

Signal	Connection	Pin	Pin name
GND	P18-2	1A	GND
AV_CS_DPRC_L	P11-21C	2A	AV_CS_DPRC_L
AV_ADRS8	P11-23B	3A	AV_ADRS8
AV_ADRS5	P11-24B	4A	AV_ADRS5
AV_ADRS2	P11-25B	5A	AV_ADRS2
AV_IORD_L	P11-26B	6A	AV_IORD_L
AV_DATA7	P11-27B	7A	AV_DATA7
AV_DATA4	P11-28B	8A	AV_DATA4
AV_DATA1	P11-29B	9A	AV_DATA1
SYS_OUT_FRM	P2-10A, P12-17C	10A	SYS_OUT_FRM
FM_FLAG	P12-15B	11A	FM_FLAG
DV_AV_DATA	P12-16B	12A	DV_AV_DATA
		13A	
EE_YC0	P4-14A	14A	EE_YC0
EE_YC3	P4-15A	15A	EE_YC3
EE_YC6	P4-16A	16A	EE_YC6
REF_CLK27	P4-17A	17A	REF_CLK27
REF_HD	P4-18A	18A	REF_HD
PB_YC2	P4-19A	19A	PB_YC2
PB_YC5	P4-20A	20A	PB_YC5
PB_FRM	P4-21A	21A	PB_FRM
DIF_FRM	P6-22A	22A	DIF_FRM
REC_DIF_BD0	P6-23A	23A	REC_DIF_BD0
REC_DIF_BD3	P6-24A	24A	REC_DIF_BD3
PB_DIF_BD0	P6-25A	25A	PB_DIF_BD0
PB_DIF_BD3	P6-26A	26A	PB_DIF_BD3
DV_DIF_DATA	P6-27A	27A	DV_DIF_DATA
REC_SYS_DATA	P6-28A	28A	REC_SYS_DATA
PB_SYS_CTL	P6-29A	29A	PB_SYS_CTL
		30A	
		31A	
GND	P18-2	32A	GND

P8
K1KB96A00048

Signal	Connection	Pin	Pin name
GND	P18-2	1B	GND
AV_ADRS10	P11-22C	2B	AV_ADRS10
AV_ADRS7	P11-23C	3B	AV_ADRS7
AV_ADRS4	P11-24C	4B	AV_ADRS4
AV_ADRS1	P11-25C	5B	AV_ADRS1
AV_IOWR_L	P11-26C	6B	AV_IOWR_L
AV_DATA6	P11-27C	7B	AV_DATA6
AV_DATA3	P11-28C	8B	AV_DATA3
AV_DATA0	P11-29C	9B	AV_DATA0
SYS_FRP	P12-14C, P6-10B	10B	SYS_FRP
AV_DV_CLK	P12-15C	11B	AV_DV_CLK
AV_DV_REQ	P12-16C	12B	AV_DV_REQ
		13B	
EE_YC1	P4-14B	14B	EE_YC1
EE_YC4	P4-15B	15B	EE_YC4
EE_YC7	P4-16B	16B	EE_YC7
REF_CF	P4-17B	17B	REF_CF
PB_YC0	P4-18B	18B	PB_YC0
PB_YC3	P4-19B	19B	PB_YC3
PB_YC6	P4-20B	20B	PB_YC6
GND	P18-2	21B	GND
REC_DIF_FRP	P6-22B	22B	REC_DIF_FRP
REC_DIF_BD1	P6-23B	23B	REC_DIF_BD1
PB_DIF_FRP	P6-24B	24B	PB_DIF_FRP
PB_DIF_BD1	P6-25B	25B	PB_DIF_BD1
DIF_DV_DATA	P6-26B	26B	DIF_DV_DATA
DV_DIF_RDV_L	P6-27B	27B	DV_DIF_RDV_L
REC_SYS_CTL	P6-28B	28B	REC_SYS_CTL
DIF_RSV1	P6-29B	29B	DIF_RSV1
		30B	(ISP_TCK)
		31B	(ISP_TDI)
GND	P18-2	32B	GND

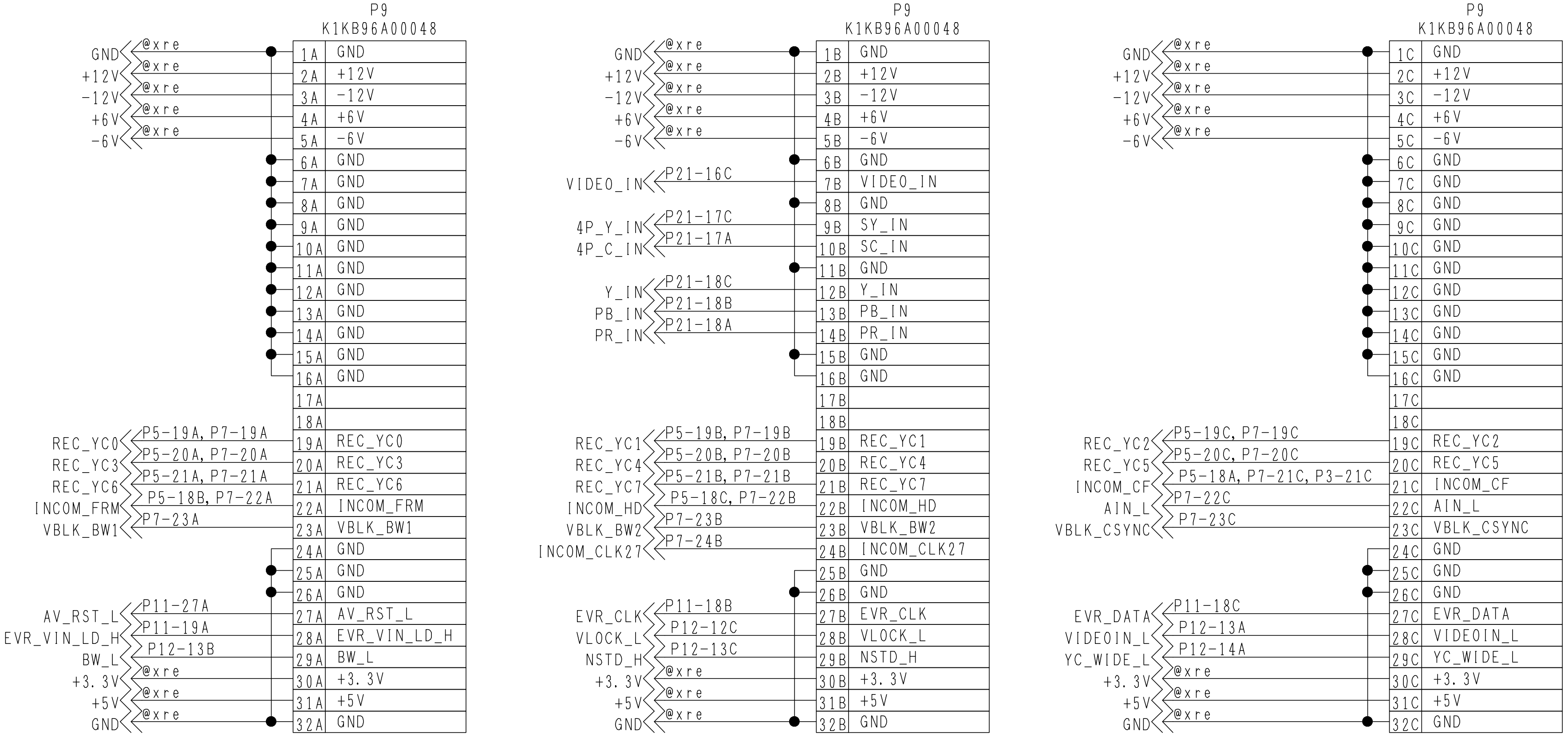
P8
K1KB96A00048

Signal	Connection	Pin	Pin name
GND	P18-2	1C	GND
AV_ADRS9	P11-23A	2C	AV_ADRS9
AV_ADRS6	P11-24A	3C	AV_ADRS6
AV_ADRS3	P11-25A	4C	AV_ADRS3
AV_ADRS0	P11-26A	5C	AV_ADRS0
AV_RST_L	P11-27A	6C	
AV_DATA5	P11-28A	7C	AV_DATA5
AV_DATA2	P11-29A	8C	AV_DATA2
		9C	
SYS_FEND	P12-15A, P6-10C	10C	SYS_FEND
AV_DV_DATA	P12-16A	11C	AV_DV_DATA
DV_AV_CTS	P12-17A	12C	DV_AV_CTS
		13C	
EE_YC2	P4-14C	14C	EE_YC2
EE_YC5	P4-15C	15C	EE_YC5
GND	P18-2	16C	GND
REF_FRM	P4-17C	17C	REF_FRM
PB_YC1	P4-18C	18C	PB_YC1
PB_YC4	P4-19C	19C	PB_YC4
PB_YC7	P4-20C	20C	PB_YC7
DIF_CLK18	P6-21C	21C	DIF_CLK18
REC_DIF_SSP	P6-22C	22C	REC_DIF_SSP
REC_DIF_BD2	P6-23C	23C	REC_DIF_BD2
PB_DIF_SSP	P6-24C	24C	PB_DIF_SSP
PB_DIF_BD2	P6-25C	25C	PB_DIF_BD2
DIF_DV_CLK	P6-26C	26C	DIF_DV_CLK
DIF_DV_SEL_REC_L	P6-27C	27C	DIF_DV_SEL_REC_L
PB_SYS_DATA	P6-28C	28C	PB_SYS_DATA
DIF_RSV2	P6-29C	29C	DIF_RSV2
		30C	(ISP_TMS)
		31C	(ISP_TDO)
GND	P18-2	32C	GND

F4 (D_PROC)

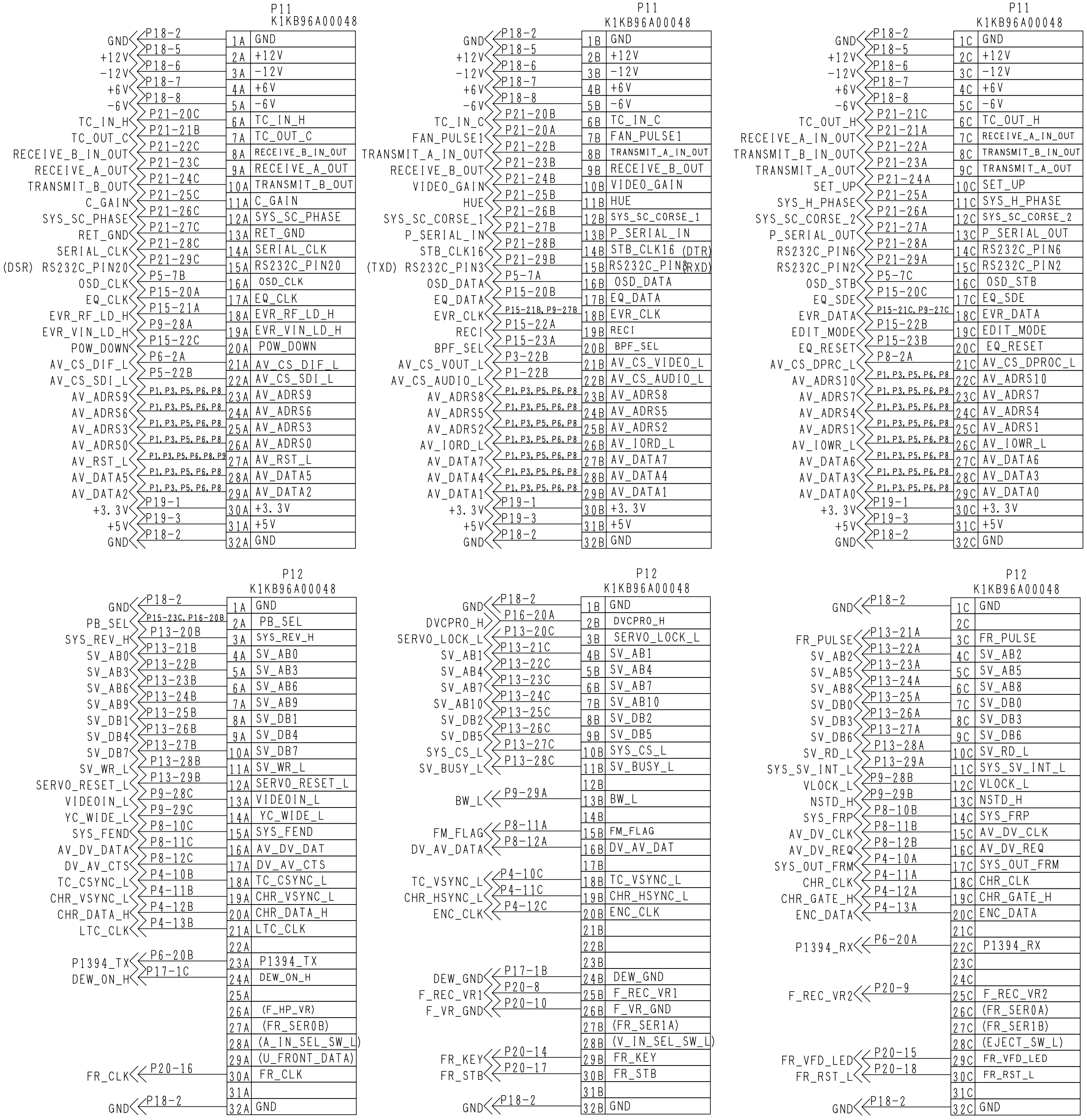
COMPONENT NAME	**MOTHER**	04/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (4/10)	
	SCM122	

F5 (V_IN)



P9
K1KB96A00048
GND @xre 1A GND
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
7A GND
8A GND
9A GND
10A GND
11A GND
12A GND
13A GND
14A GND
15A GND
16A GND
17A
18A
REC_YC0 P5-19A, P7-19A 19A REC_YC0
REC_YC3 P5-20A, P7-20A 20A REC_YC3
REC_YC6 P5-21A, P7-21A 21A REC_YC6
INCOM_FRM P5-18B, P7-22A 22A INCOM_FRM
VBLK_BW1 P7-23A 23A VBLK_BW1
24A GND
25A GND
26A GND
AV_RST_L P11-27A 27A AV_RST_L
EVR_VIN_LD_H P11-19A 28A EVR_VIN_LD_H
BW_L P12-13B 29A BW_L
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P9
K1KB96A00048
GND @xre 1B GND
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
VIDEO_IN P21-16C 7B VIDEO_IN
8B GND
4P_Y_IN P21-17C 9B SY_IN
4P_C_IN P21-17A 10B SC_IN
11B GND
Y_IN P21-18C 12B Y_IN
PB_IN P21-18B 13B PB_IN
PR_IN P21-18A 14B PR_IN
15B GND
16B GND
17B
18B
REC_YC1 P5-19B, P7-19B 19B REC_YC1
REC_YC4 P5-20B, P7-20B 20B REC_YC4
REC_YC7 P5-21B, P7-21B 21B REC_YC7
INCOM_HD P5-18C, P7-22B 22B INCOM_HD
VBLK_BW2 P7-23B 23B VBLK_BW2
INCOM_CLK27 P7-24B 24B INCOM_CLK27
25B GND
26B GND
EVR_CLK P11-18B 27B EVR_CLK
VLOCK_L P12-12C 28B VLOCK_L
NSTD_H P12-13C 29B NSTD_H
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P9
K1KB96A00048
GND @xre 1C GND
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
7C GND
8C GND
9C GND
10C GND
11C GND
12C GND
13C GND
14C GND
15C GND
16C GND
17C
18C
REC_YC2 P5-19C, P7-19C 19C REC_YC2
REC_YC5 P5-20C, P7-20C 20C REC_YC5
INCOM_CF P5-18A, P7-21C, P3-21C 21C INCOM_CF
AIN_L P7-22C 22C AIN_L
VBLK_CSYNC P7-23C 23C VBLK_CSYNC
24C GND
25C GND
26C GND
EVR_DATA P11-18C 27C EVR_DATA
VIDEOIN_L P12-13A 28C VIDEOIN_L
YC_WIDE_L P12-14A 29C YC_WIDE_L
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND

COMPONENT NAME	**MOTHER**	05/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (5/10) **SCM123**	



F6 (SYSCON)

P11
K1KB96A00048

GND	P18-2	1A	GND
+12V	P18-5	2A	+12V
-12V	P18-6	3A	-12V
+6V	P18-7	4A	+6V
-6V	P18-8	5A	-6V
TC_IN_H	P21-20C	6A	TC_IN_H
TC_OUT_C	P21-21B	7A	TC_OUT_C
RECEIVE_B_IN_OUT	P21-22C	8A	RECEIVE_B_IN_OUT
RECEIVE_A_OUT	P21-23C	9A	RECEIVE_A_OUT
TRANSMIT_B_OUT	P21-24C	10A	TRANSMIT_B_OUT
C_GAIN	P21-25C	11A	C_GAIN
SYS_SC_PHASE	P21-26C	12A	SYS_SC_PHASE
RET_GND	P21-27C	13A	RET_GND
SERIAL_CLK	P21-28C	14A	SERIAL_CLK
(DSR) RS232C_PIN20	P21-29C	15A	RS232C_PIN20
OSD_CLK	P5-7B	16A	OSD_CLK
EQ_CLK	P15-20A	17A	EQ_CLK
EVR_RF_LD_H	P15-21A	18A	EVR_RF_LD_H
EVR_VIN_LD_H	P9-28A	19A	EVR_VIN_LD_H
POW_DOWN	P15-22C	20A	POW_DOWN
AV_CS_DIF_L	P6-2A	21A	AV_CS_DIF_L
AV_CS_SDI_L	P5-22B	22A	AV_CS_SDI_L
AV_ADRS9	P1, P3, P5, P6, P8	23A	AV_ADRS9
AV_ADRS6	P1, P3, P5, P6, P8	24A	AV_ADRS6
AV_ADRS3	P1, P3, P5, P6, P8	25A	AV_ADRS3
AV_ADRS0	P1, P3, P5, P6, P8	26A	AV_ADRS0
AV_RST_L	P1, P3, P5, P6, P8, P9	27A	AV_RST_L
AV_DATA5	P1, P3, P5, P6, P8	28A	AV_DATA5
AV_DATA2	P1, P3, P5, P6, P8	29A	AV_DATA2
+3. 3V	P19-1	30A	+3. 3V
+5V	P19-3	31A	+5V
GND	P18-2	32A	GND

P11
K1KB96A00048

GND	P18-2	1B	GND
+12V	P18-5	2B	+12V
-12V	P18-6	3B	-12V
+6V	P18-7	4B	+6V
-6V	P18-8	5B	-6V
TC_IN_C	P21-20B	6B	TC_IN_C
FAN_PULSE1	P21-20A	7B	FAN_PULSE1
TRANSMIT_A_IN_OUT	P21-22B	8B	TRANSMIT_A_IN_OUT
RECEIVE_B_OUT	P21-23B	9B	RECEIVE_B_OUT
VIDEO_GAIN	P21-24B	10B	VIDEO_GAIN
HUE	P21-25B	11B	HUE
SYS_SC_CORSE_1	P21-26B	12B	SYS_SC_CORSE_1
P_SERIAL_IN	P21-27B	13B	P_SERIAL_IN
STB_CLK16	P21-28B	14B	STB_CLK16 (DTR)
(TXD) RS232C_PIN3	P21-29B	15B	RS232C_PIN3 (RXD)
OSD_DATA	P5-7A	16B	OSD_DATA
EQ_DATA	P15-20B	17B	EQ_DATA
EVR_CLK	P15-21B, P9-27B	18B	EVR_CLK
RECI	P15-22A	19B	RECI
BPF_SEL	P15-23A	20B	BPF_SEL
AV_CS_VOUT_L	P3-22B	21B	AV_CS_VIDEO_L
AV_CS_AUDIO_L	P1-22B	22B	AV_CS_AUDIO_L
AV_ADRS8	P1, P3, P5, P6, P8	23B	AV_ADRS8
AV_ADRS5	P1, P3, P5, P6, P8	24B	AV_ADRS5
AV_ADRS2	P1, P3, P5, P6, P8	25B	AV_ADRS2
AV_IORD_L	P1, P3, P5, P6, P8	26B	AV_IORD_L
AV_DATA7	P1, P3, P5, P6, P8	27B	AV_DATA7
AV_DATA4	P1, P3, P5, P6, P8	28B	AV_DATA4
AV_DATA1	P1, P3, P5, P6, P8	29B	AV_DATA1
+3. 3V	P19-1	30B	+3. 3V
+5V	P19-3	31B	+5V
GND	P18-2	32B	GND

P11
K1KB96A00048

GND	P18-2	1C	GND
+12V	P18-5	2C	+12V
-12V	P18-6	3C	-12V
+6V	P18-7	4C	+6V
-6V	P18-8	5C	-6V
TC_OUT_H	P21-21C	6C	TC_OUT_H
RECEIVE_A_IN_OUT	P21-21A	7C	RECEIVE_A_IN_OUT
TRANSMIT_B_IN_OUT	P21-22A	8C	TRANSMIT_B_IN_OUT
TRANSMIT_A_OUT	P21-23A	9C	TRANSMIT_A_OUT
SET_UP	P21-24A	10C	SET_UP
SYS_H_PHASE	P21-25A	11C	SYS_H_PHASE
SYS_SC_CORSE_2	P21-26A	12C	SYS_SC_CORSE_2
P_SERIAL_OUT	P21-27A	13C	P_SERIAL_OUT
RS232C_PIN6	P21-28A	14C	RS232C_PIN6
RS232C_PIN2	P21-29A	15C	RS232C_PIN2
OSD_STB	P5-7C	16C	OSD_STB
EQ_SDE	P15-20C	17C	EQ_SDE
EVR_DATA	P15-21C, P9-27C	18C	EVR_DATA
EDIT_MODE	P15-22B	19C	EDIT_MODE
EQ_RESET	P15-23B	20C	EQ_RESET
AV_CS_DPRC_L	P8-2A	21C	AV_CS_DPROC_L
AV_ADRS10	P1, P3, P5, P6, P8	22C	AV_ADRS10
AV_ADRS7	P1, P3, P5, P6, P8	23C	AV_ADRS7
AV_ADRS4	P1, P3, P5, P6, P8	24C	AV_ADRS4
AV_ADRS1	P1, P3, P5, P6, P8	25C	AV_ADRS1
AV_IOWR_L	P1, P3, P5, P6, P8	26C	AV_IOWR_L
AV_DATA6	P1, P3, P5, P6, P8	27C	AV_DATA6
AV_DATA3	P1, P3, P5, P6, P8	28C	AV_DATA3
AV_DATA0	P1, P3, P5, P6, P8	29C	AV_DATA0
+3. 3V	P19-1	30C	+3. 3V
+5V	P19-3	31C	+5V
GND	P18-2	32C	GND

P12
K1KB96A00048

GND	P18-2	1A	GND
PB_SEL	P15-23C, P16-20B	2A	PB_SEL
SYS_REV_H	P13-20B	3A	SYS_REV_H
SV_AB0	P13-21B	4A	SV_AB0
SV_AB3	P13-22B	5A	SV_AB3
SV_AB6	P13-23B	6A	SV_AB6
SV_AB9	P13-24B	7A	SV_AB9
SV_DB1	P13-25B	8A	SV_DB1
SV_DB4	P13-26B	9A	SV_DB4
SV_DB7	P13-27B	10A	SV_DB7
SV_WR_L	P13-28B	11A	SV_WR_L
SERVO_RESET_L	P13-29B	12A	SERVO_RESET_L
VIDEOIN_L	P9-28C	13A	VIDEOIN_L
YC_WIDE_L	P9-29C	14A	YC_WIDE_L
SYS_FEND	P8-10C	15A	SYS_FEND
AV_DV_DATA	P8-11C	16A	AV_DV_DAT
DV_AV_CTS	P8-12C	17A	DV_AV_CTS
TC_CSYNC_L	P4-10B	18A	TC_CSYNC_L
CHR_VSYNC_L	P4-11B	19A	CHR_VSYNC_L
CHR_DATA_H	P4-12B	20A	CHR_DATA_H
LTC_CLK	P4-13B	21A	LTC_CLK
		22A	
P1394_TX	P6-20B	23A	P1394_TX
DEW_ON_H	P17-1C	24A	DEW_ON_H
		25A	
		26A	(F_HP_VR)
		27A	(FR_SER0B)
		28A	(A_IN_SEL_SW_L)
		29A	(U_FRONT_DATA)
FR_CLK	P20-16	30A	FR_CLK
		31A	
GND	P18-2	32A	GND

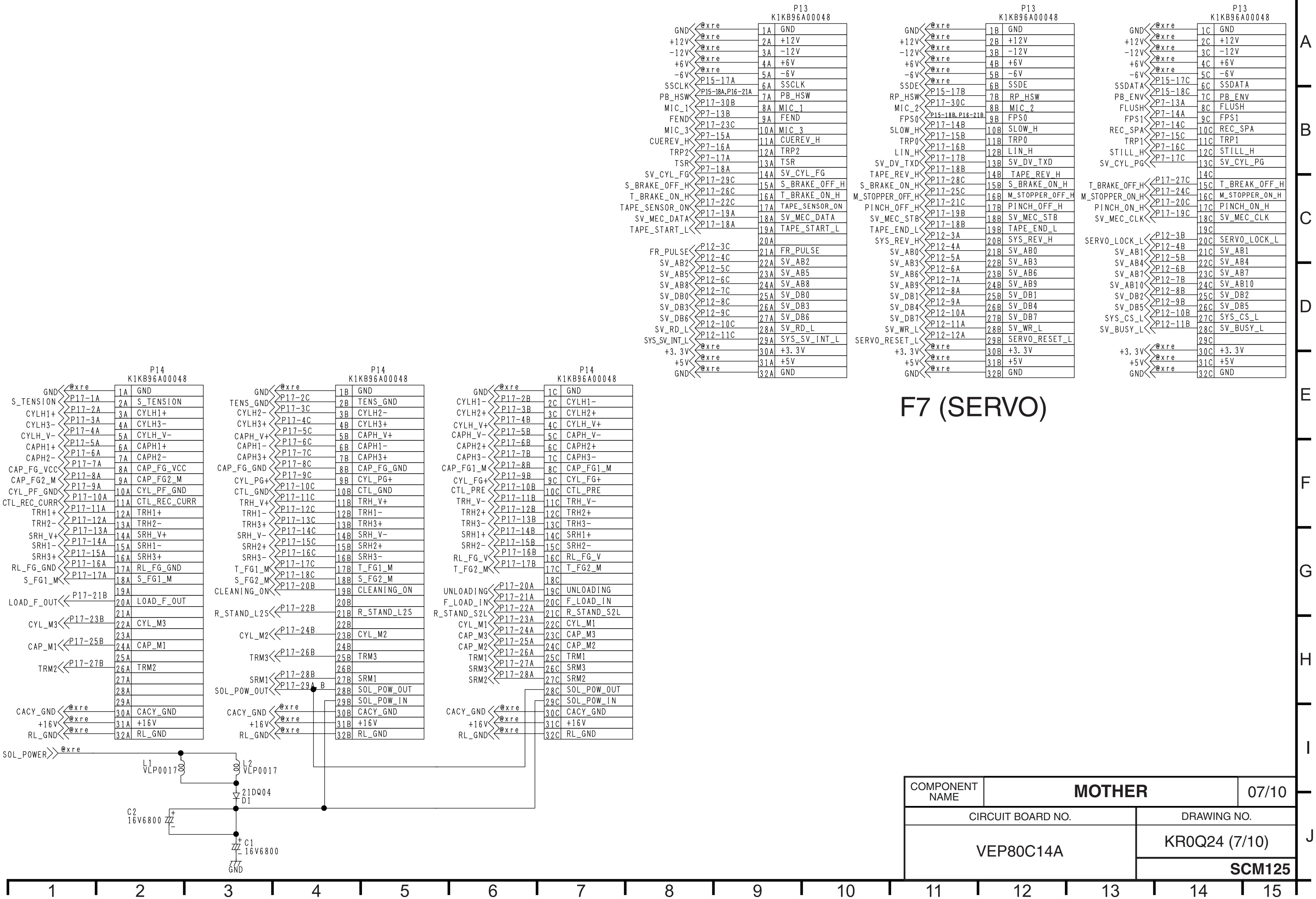
P12
K1KB96A00048

GND	P18-2	1B	GND
DVCPRO_H	P16-20A	2B	DVCPRO_H
SERVO_LOCK_L	P13-20C	3B	SERVO_LOCK_L
SV_AB1	P13-21C	4B	SV_AB1
SV_AB4	P13-22C	5B	SV_AB4
SV_AB7	P13-23C	6B	SV_AB7
SV_AB10	P13-24C	7B	SV_AB10
SV_DB2	P13-25C	8B	SV_DB2
SV_DB5	P13-26C	9B	SV_DB5
SYS_CS_L	P13-27C	10B	SYS_CS_L
SV_BUSY_L	P13-28C	11B	SV_BUSY_L
		12B	
BW_L	P9-29A	13B	BW_L
		14B	
FM_FLAG	P8-11A	15B	FM_FLAG
DV_AV_DATA	P8-12A	16B	DV_AV_DAT
		17B	
TC_VSYNC_L	P4-10C	18B	TC_VSYNC_L
CHR_HSYNC_L	P4-11C	19B	CHR_HSYNC_L
ENC_CLK	P4-12C	20B	ENC_CLK
		21B	
		22B	
		23B	
DEW_GND	P17-1B	24B	DEW_GND
F_REC_VR1	P20-8	25B	F_REC_VR1
F_VR_GND	P20-10	26B	F_VR_GND
		27B	(FR_SER1A)
		28B	(V_IN_SEL_SW_L)
FR_KEY	P20-14	29B	FR_KEY
FR_STB	P20-17	30B	FR_STB
		31B	
GND	P18-2	32B	GND

P12
K1KB96A00048

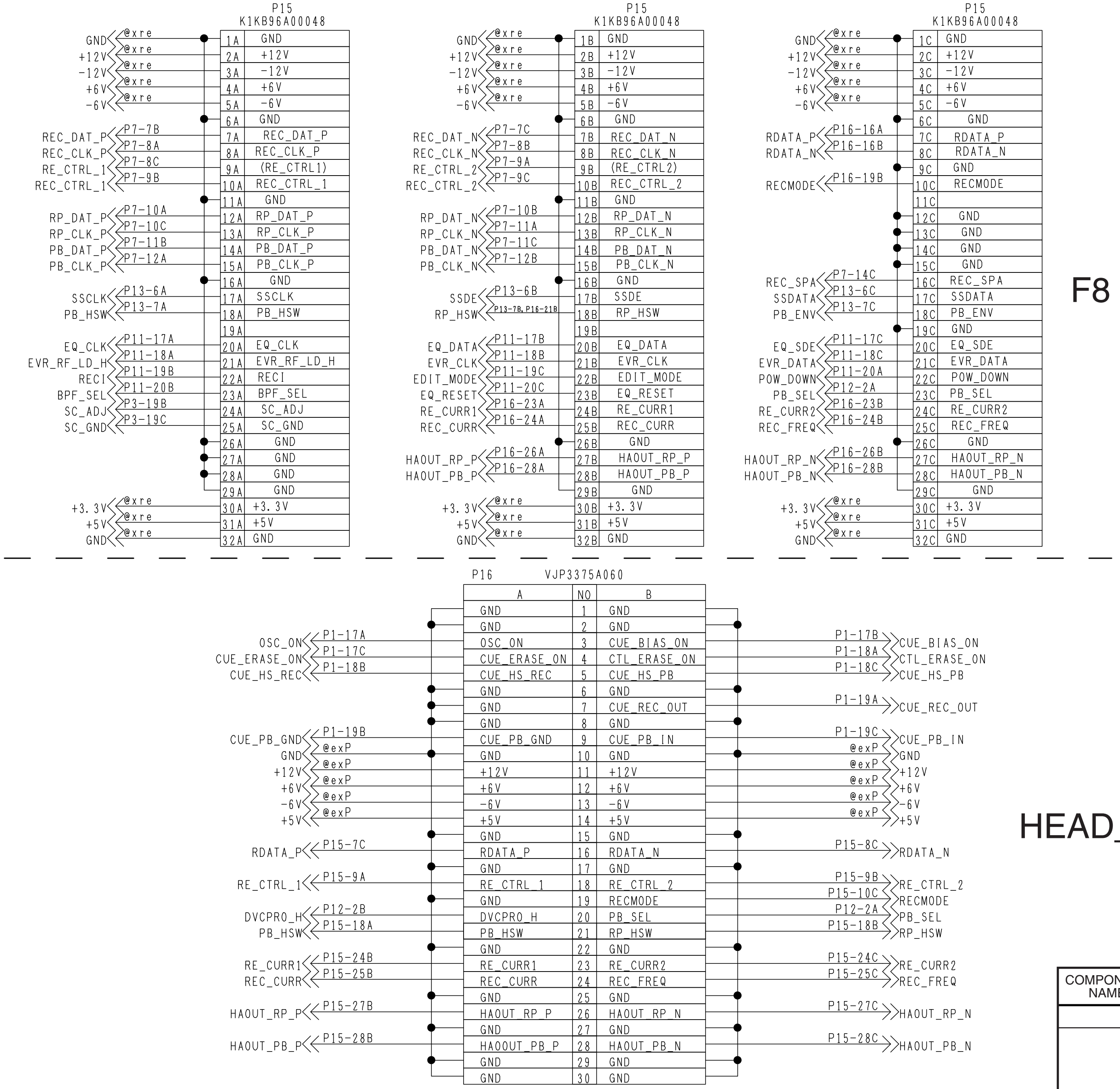
GND	P18-2	1C	GND
		2C	
FR_PULSE	P13-21A	3C	FR_PULSE
SV_AB2	P13-22A	4C	SV_AB2
SV_AB5	P13-23A	5C	SV_AB5
SV_AB8	P13-24A	6C	SV_AB8
SV_DB0	P13-25A	7C	SV_DB0
SV_DB3	P13-26A	8C	SV_DB3
SV_DB6	P13-27A	9C	SV_DB6
SV_RD_L	P13-28A	10C	SV_RD_L
SYS_SV_INT_L	P13-29A	11C	SYS_SV_INT_L
VLOCK_L	P9-28B	12C	VLOCK_L
NSTD_H	P9-29B	13C	NSTD_H
SYS_FRP	P8-10B	14C	SYS_FRP
AV_DV_CLK	P8-11B	15C	AV_DV_CLK
AV_DV_REQ	P8-12B	16C	AV_DV_REQ
SYS_OUT_FRM	P4-10A	17C	SYS_OUT_FRM
CHR_CLK	P4-11A	18C	CHR_CLK
CHR_GATE_H	P4-12A	19C	CHR_GATE_H
ENC_DATA	P4-13A	20C	ENC_DATA
		21C	
P1394_RX	P6-20A	22C	P1394_RX
		23C	
		24C	
F_REC_VR2	P20-9	25C	F_REC_VR2
		26C	(FR_SER0A)
		27C	(FR_SER1B)
		28C	(EJECT_SW_L)
FR_VFD_LED	P20-15	29C	FR_VFD_LED
FR_RST_L	P20-18	30C	FR_RST_L
		31C	
GND	P18-2	32C	GND

COMPONENT NAME	MOTHER		06/10
CIRCUIT BOARD NO.		DRAWING NO.	
VEP80C14A		KR0Q24 (6/10)	
		SCM124	


P13
K1KB96A00048
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A SSCLK
7A PB_HSW
8A MIC_1
9A FEND
10A MIC_3
11A CUEREV_H
12A TRP2
13A TSR
14A SV_CYL_FG
15A S_BRAKE_OFF_H
16A T_BRAKE_ON_H
17A TAPE_SENSOR_ON
18A SV_MEC_DATA
19A TAPE_START_L
20A
21A FR_PULSE
22A SV_AB2
23A SV_AB5
24A SV_AB8
25A SV_DB0
26A SV_DB3
27A SV_DB6
28A SV_RD_L
29A SYS_SV_INT_L
30A +3.3V
31A +5V
32A GND
P13
K1KB96A00048
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B SSDE
7B RP_HSW
8B MIC_2
9B FPS0
10B SLOW_H
11B TRP0
12B LIN_H
13B SV_DV_TXD
14B TAPE_REV_H
15B S_BRAKE_ON_H
16B M_STOPPER_OFF_H
17B PINCH_OFF_H
18B SV_MEC_STB
19B TAPE_END_L
20B SYS_REV_H
21B SV_AB0
22B SV_AB3
23B SV_AB6
24B SV_AB9
25B SV_DB1
26B SV_DB4
27B SV_DB7
28B SV_WR_L
29B SERVO_RESET_L
30B +3.3V
31B +5V
32B GND
P13
K1KB96A00048
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C SSDATA
7C PB_ENV
8C FLUSH
9C FPS1
10C REC_SPA
11C TRP1
12C STILL_H
13C SV_CYL_PG
14C
15C T_BREAK_OFF_H
16C M_STOPPER_ON_H
17C PINCH_ON_H
18C SV_MEC_CLK
19C
20C SERVO_LOCK_L
21C SV_AB1
22C SV_AB4
23C SV_AB7
24C SV_AB10
25C SV_DB2
26C SV_DB5
27C SYS_CS_L
28C SV_BUSY_L
29C
30C +3.3V
31C +5V
32C GND
P14
K1KB96A00048
1A GND
2A S_TENSION
3A CYLH1+
4A CYLH3-
5A CYLH_V-
6A CAPH1+
7A CAPH2-
8A CAP_FG_VCC
9A CAP_FG2_M
10A CYL_PF_GND
11A CTL_REC_CURR
12A TRH1+
13A TRH2-
14A SRH_V+
15A SRH1-
16A SRH3+
17A RL_FG_GND
18A S_FG1_M
19A
20A LOAD_F_OUT
21A
22A CYL_M3
23A
24A CAP_M1
25A
26A TRM2
27A
28A
29A
30A CACY_GND
31A +16V
32A RL_GND
P14
K1KB96A00048
1B GND
2B TENS_GND
3B CYLH2-
4B CYLH3+
5B CAPH_V+
6B CAPH1-
7B CAPH3+
8B CAP_FG_GND
9B CYL_PG+
10B CTL_GND
11B TRH_V+
12B TRH1-
13B TRH3+
14B SRH_V-
15B SRH2+
16B SRH3-
17B T_FG1_M
18B S_FG2_M
19B CLEANING_ON
20B
21B R_STAND_L2S
22B
23B CYL_M2
24B
25B TRM3
26B
27B SRM1
28B SOL_POW_OUT
29B SOL_POW_IN
30B CACY_GND
31B +16V
32B RL_GND
P14
K1KB96A00048
1C GND
2C CYLH1-
3C CYLH2+
4C CYLH_V+
5C CAPH_V-
6C CAPH2+
7C CAPH3-
8C CAP_FG1_M
9C CYL_FG+
10C CTL_PRE
11C TRH_V-
12C TRH2+
13C TRH3-
14C SRH1+
15C SRH2-
16C RL_FG_V
17C T_FG2_M
18C
19C UNLOADING
20C F_LOAD_IN
21C R_STAND_S2L
22C CYL_M1
23C CAP_M3
24C CAP_M2
25C TRM1
26C SRM3
27C SRM2
28C SOL_POW_OUT
29C SOL_POW_IN
30C CACY_GND
31C +16V
32C RL_GND
SOL_POWER
@xre
L1 VLP0017
L2 VLP0017
21DQ04 D1
C2 16V6800
C1 16V6800
GND

F7 (SERVO)

COMPONENT NAME	MOTHER	07/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (7/10)	
	SCM125	


P15 K1KB96A00048
GND @xre 1A GND
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
REC_DAT_P P7-7B 7A REC_DAT_P
REC_CLK_P P7-8A 8A REC_CLK_P
RE_CTRL_1 P7-8C 9A (RE_CTRL1)
REC_CTRL_1 P7-9B 10A REC_CTRL_1
11A GND
RP_DAT_P P7-10A 12A RP_DAT_P
RP_CLK_P P7-10C 13A RP_CLK_P
PB_DAT_P P7-11B 14A PB_DAT_P
PB_CLK_P P7-12A 15A PB_CLK_P
16A GND
SSCLK P13-6A 17A SSCLK
PB_HSW P13-7A 18A PB_HSW
19A
EQ_CLK P11-17A 20A EQ_CLK
EVR_RF_LD_H P11-18A 21A EVR_RF_LD_H
RECI P11-19B 22A RECI
BPF_SEL P11-20B 23A BPF_SEL
SC_ADJ P3-19B 24A SC_ADJ
SC_GND P3-19C 25A SC_GND
26A GND
27A GND
28A GND
29A GND
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P15 K1KB96A00048
GND @xre 1B GND
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
REC_DAT_N P7-7C 7B REC_DAT_N
REC_CLK_N P7-8B 8B REC_CLK_N
RE_CTRL_2 P7-9A 9B (RE_CTRL2)
REC_CTRL_2 P7-9C 10B REC_CTRL_2
11B GND
RP_DAT_N P7-10B 12B RP_DAT_N
RP_CLK_N P7-11A 13B RP_CLK_N
PB_DAT_N P7-11C 14B PB_DAT_N
PB_CLK_N P7-12B 15B PB_CLK_N
16B GND
SSDE P13-6B 17B SSDE
RP_HSW P13-7B, P16-21B 18B RP_HSW
19B
EQ_DATA P11-17B 20B EQ_DATA
EVR_CLK P11-18B 21B EVR_CLK
EDIT_MODE P11-19C 22B EDIT_MODE
EQ_RESET P11-20C 23B EQ_RESET
RE_CURR1 P16-23A 24B RE_CURR1
REC_CURR P16-24A 25B REC_CURR
26B GND
HAOUT_RP_P P16-26A 27B HAOUT_RP_P
HAOUT_PB_P P16-28A 28B HAOUT_PB_P
29B GND
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P15 K1KB96A00048
GND @xre 1C GND
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
RDATA_P P16-16A 7C RDATA_P
RDATA_N P16-16B 8C RDATA_N
9C GND
RECMODE P16-19B 10C RECMODE
11C
12C GND
13C GND
14C GND
15C GND
REC_SPA P7-14C 16C REC_SPA
SSDATA P13-6C 17C SSDATA
PB_ENV P13-7C 18C PB_ENV
19C GND
EQ_SDE P11-17C 20C EQ_SDE
EVR_DATA P11-18C 21C EVR_DATA
POW_DOWN P11-20A 22C POW_DOWN
PB_SEL P12-2A 23C PB_SEL
RE_CURR2 P16-23B 24C RE_CURR2
REC_FREQ P16-24B 25C REC_FREQ
26C GND
HAOUT_RP_N P16-26B 27C HAOUT_RP_N
HAOUT_PB_N P16-28B 28C HAOUT_PB_N
29C GND
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND
P16 VJP3375A060
A NO B
GND 1 GND
GND 2 GND
OSC_ON P1-17A OSC_ON 3 CUE_BIAS_ON P1-17B CUE_BIAS_ON
CUE_ERASE_ON P1-17C CUE_ERASE_ON 4 CTL_ERASE_ON P1-18A CTL_ERASE_ON
CUE_HS_REC P1-18B CUE_HS_REC 5 CUE_HS_PB P1-18C CUE_HS_PB
GND 6 GND
GND 7 CUE_REC_OUT P1-19A CUE_REC_OUT
GND 8 GND
CUE_PB_GND P1-19B CUE_PB_GND 9 CUE_PB_IN P1-19C CUE_PB_IN
GND @exP GND 10 GND @exP GND
+12V @exP +12V 11 +12V @exP +12V
+6V @exP +6V 12 +6V @exP +6V
-6V @exP -6V 13 -6V @exP -6V
+5V @exP +5V 14 +5V @exP +5V
GND 15 GND
RDATA_P P15-7C RDATA_P 16 RDATA_N P15-8C RDATA_N
GND 17 GND
RE_CTRL_1 P15-9A RE_CTRL_1 18 RE_CTRL_2 P15-9B RE_CTRL_2
GND 19 RECMODE P15-10C RECMODE
DVCPRO_H P12-2B DVCPRO_H 20 PB_SEL P12-2A PB_SEL
PB_HSW P15-18A PB_HSW 21 RP_HSW P15-18B RP_HSW
GND 22 GND
RE_CURR1 P15-24B RE_CURR1 23 RE_CURR2 P15-24C RE_CURR2
REC_CURR P15-25B REC_CURR 24 REC_FREQ P15-25C REC_FREQ
GND 25 GND
HAOUT_RP_P P15-27B HAOUT_RP_P 26 HAOUT_RP_N P15-27C HAOUT_RP_N
GND 27 GND
HAOUT_PB_P P15-28B HAOOUT_PB_P 28 HAOUT_PB_N P15-28C HAOUT_PB_N
GND 29 GND
GND 30 GND

F8 (RF/EQ)

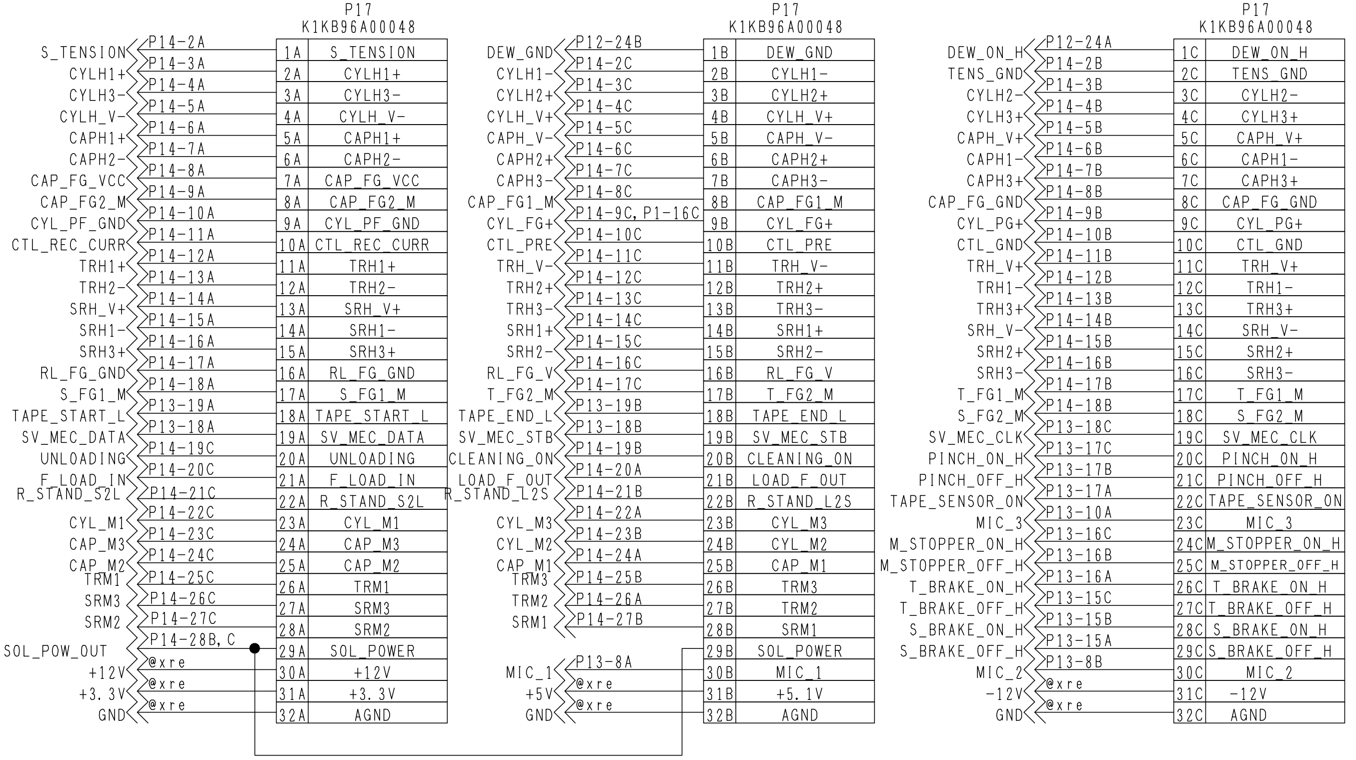
HEAD_BUFF (RF/CUE)

COMPONENT NAME	MOTHER		08/10
CIRCUIT BOARD NO.		DRAWING NO.	
VEP80C14A		KR0Q24 (8/10)	
		SCM126	

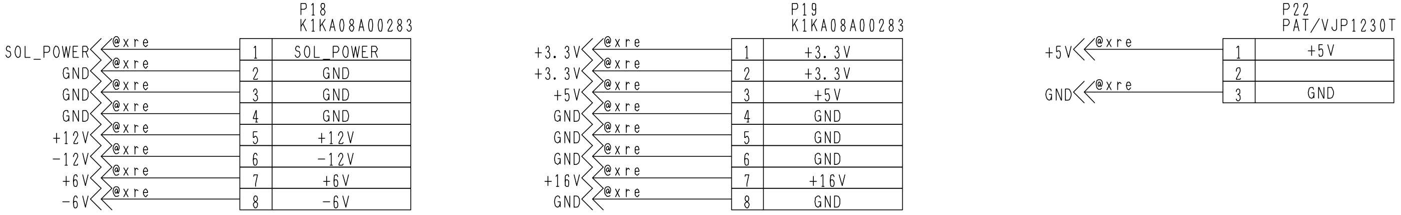
A B C D E F G H I J

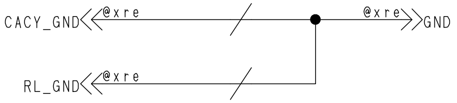
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

MECHA_IF

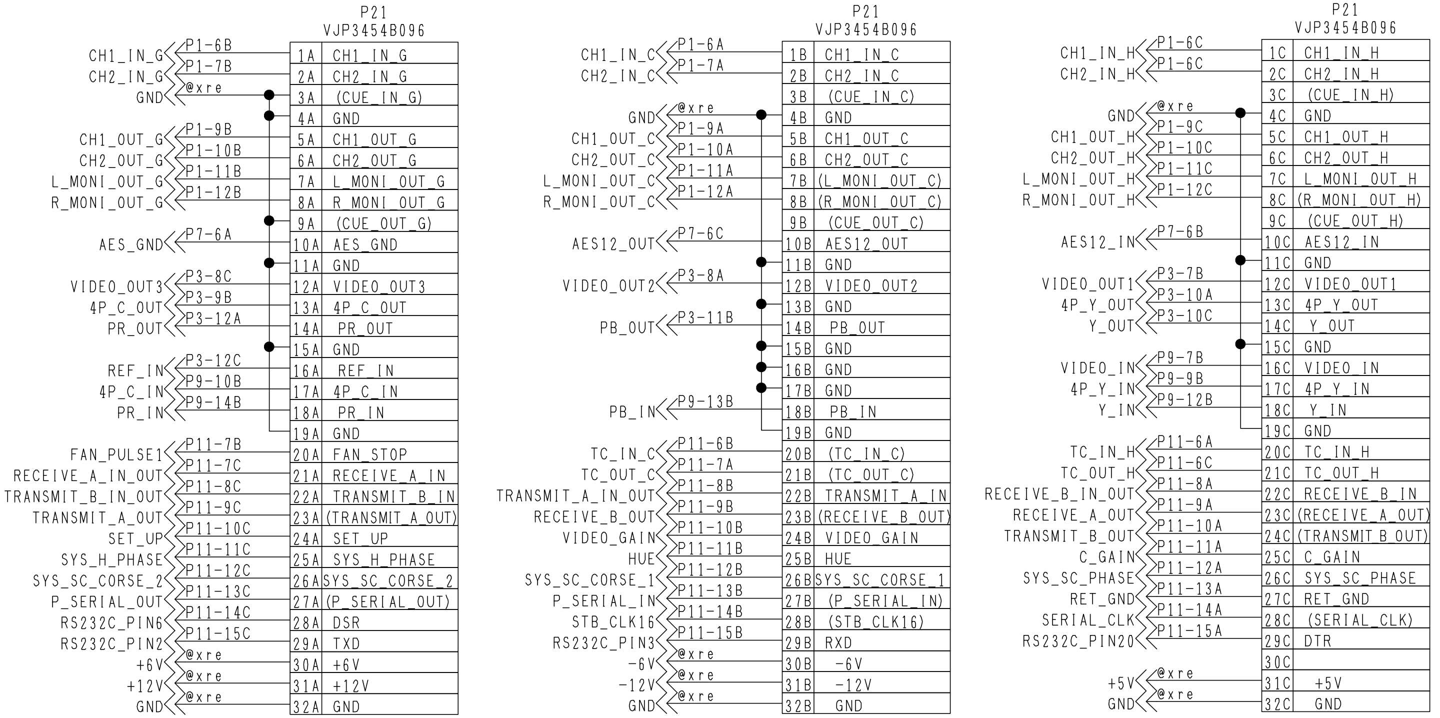

P17
K1KB96A00048
S_TENSION P14-2A 1A S_TENSION
CYLH1+ P14-3A 2A CYLH1+
CYLH3- P14-4A 3A CYLH3-
CYLH_V- P14-5A 4A CYLH_V-
CAPH1+ P14-6A 5A CAPH1+
CAPH2- P14-7A 6A CAPH2-
CAP_FG_VCC P14-8A 7A CAP_FG_VCC
CAP_FG2_M P14-9A 8A CAP_FG2_M
CYL_PF_GND P14-10A 9A CYL_PF_GND
CTL_REC_CURR P14-11A 10A CTL_REC_CURR
TRH1+ P14-12A 11A TRH1+
TRH2- P14-13A 12A TRH2-
SRH_V+ P14-14A 13A SRH_V+
SRH1- P14-15A 14A SRH1-
SRH3+ P14-16A 15A SRH3+
RL_FG_GND P14-17A 16A RL_FG_GND
S_FG1_M P14-18A 17A S_FG1_M
TAPE_START_L P13-19A 18A TAPE_START_L
SV_MEC_DATA P13-18A 19A SV_MEC_DATA
UNLOADING P14-19C 20A UNLOADING
F_LOAD_IN P14-20C 21A F_LOAD_IN
R_STAND_S2L P14-21C 22A R_STAND_S2L
CYL_M1 P14-22C 23A CYL_M1
CAP_M3 P14-23C 24A CAP_M3
CAP_M2 P14-24C 25A CAP_M2
TRM1 P14-25C 26A TRM1
SRM3 P14-26C 27A SRM3
SRM2 P14-27C 28A SRM2
SOL_POW_OUT P14-28B,C 29A SOL_POWER
+12V @xre 30A +12V
+3.3V @xre 31A +3.3V
GND @xre 32A AGND
P17
K1KB96A00048
DEW_GND P12-24B 1B DEW_GND
CYLH1- P14-2C 2B CYLH1-
CYLH2+ P14-3C 3B CYLH2+
CYLH_V+ P14-4C 4B CYLH_V+
CAPH_V- P14-5C 5B CAPH_V-
CAPH2+ P14-6C 6B CAPH2+
CAPH3- P14-7C 7B CAPH3-
CAP_FG1_M P14-8C 8B CAP_FG1_M
CYL_FG+ P14-9C,P1-16C 9B CYL_FG+
CTL_PRE P14-10C 10B CTL_PRE
TRH_V- P14-11C 11B TRH_V-
TRH2+ P14-12C 12B TRH2+
TRH3- P14-13C 13B TRH3-
SRH1+ P14-14C 14B SRH1+
SRH2- P14-15C 15B SRH2-
RL_FG_V P14-16C 16B RL_FG_V
T_FG2_M P14-17C 17B T_FG2_M
TAPE_END_L P13-19B 18B TAPE_END_L
SV_MEC_STB P13-18B 19B SV_MEC_STB
CLEANING_ON P14-19B 20B CLEANING_ON
LOAD_F_OUT P14-20A 21B LOAD_F_OUT
R_STAND_L2S P14-21B 22B R_STAND_L2S
CYL_M3 P14-22A 23B CYL_M3
CYL_M2 P14-23B 24B CYL_M2
CAP_M1 P14-24A 25B CAP_M1
TRM3 P14-25B 26B TRM3
TRM2 P14-26A 27B TRM2
SRM1 P14-27B 28B SRM1
29B SOL_POWER
MIC_1 P13-8A 30B MIC_1
+5V @xre 31B +5.1V
GND @xre 32B AGND
P17
K1KB96A00048
DEW_ON_H P12-24A 1C DEW_ON_H
TENS_GND P14-2B 2C TENS_GND
CYLH2- P14-3B 3C CYLH2-
CYLH3+ P14-4B 4C CYLH3+
CAPH_V+ P14-5B 5C CAPH_V+
CAPH1- P14-6B 6C CAPH1-
CAPH3+ P14-7B 7C CAPH3+
CAP_FG_GND P14-8B 8C CAP_FG_GND
CYL_PG+ P14-9B 9C CYL_PG+
CTL_GND P14-10B 10C CTL_GND
TRH_V+ P14-11B 11C TRH_V+
TRH1- P14-12B 12C TRH1-
TRH3+ P14-13B 13C TRH3+
SRH_V- P14-14B 14C SRH_V-
SRH2+ P14-15B 15C SRH2+
SRH3- P14-16B 16C SRH3-
T_FG1_M P14-17B 17C T_FG1_M
S_FG2_M P14-18B 18C S_FG2_M
SV_MEC_CLK P13-18C 19C SV_MEC_CLK
PINCH_ON_H P13-17C 20C PINCH_ON_H
PINCH_OFF_H P13-17B 21C PINCH_OFF_H
TAPE_SENSOR_ON P13-17A 22C TAPE_SENSOR_ON
MIC_3 P13-10A 23C MIC_3
M_STOPPER_ON_H P13-16C 24C M_STOPPER_ON_H
M_STOPPER_OFF_H P13-16B 25C M_STOPPER_OFF_H
T_BRAKE_ON_H P13-16A 26C T_BRAKE_ON_H
T_BRAKE_OFF_H P13-15C 27C T_BRAKE_OFF_H
S_BRAKE_ON_H P13-15B 28C S_BRAKE_ON_H
S_BRAKE_OFF_H P13-15A 29C S_BRAKE_OFF_H
MIC_2 P13-8B 30C MIC_2
-12V @xre 31C -12V
GND @xre 32C AGND

POWER

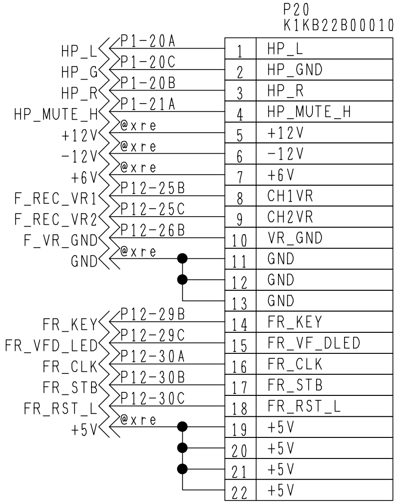

P18
K1KA08A00283
SOL_POWER @xre 1 SOL_POWER
GND @xre 2 GND
GND @xre 3 GND
GND @xre 4 GND
+12V @xre 5 +12V
-12V @xre 6 -12V
+6V @xre 7 +6V
-6V @xre 8 -6V
P19
K1KA08A00283
+3.3V @xre 1 +3.3V
+3.3V @xre 2 +3.3V
+5V @xre 3 +5V
GND @xre 4 GND
GND @xre 5 GND
GND @xre 6 GND
+16V @xre 7 +16V
GND @xre 8 GND
P22
PAT/VJP1230T
+5V @xre 1 +5V
2
GND @xre 3 GND


CACY_GND @xre
@xre GND
RL_GND @xre

COMPONENT NAME	MOTHER		09/10
CIRCUIT BOARD NO.		DRAWING NO.	
VEP80C14A		KR0Q24 (9/10)	
		SCM127	

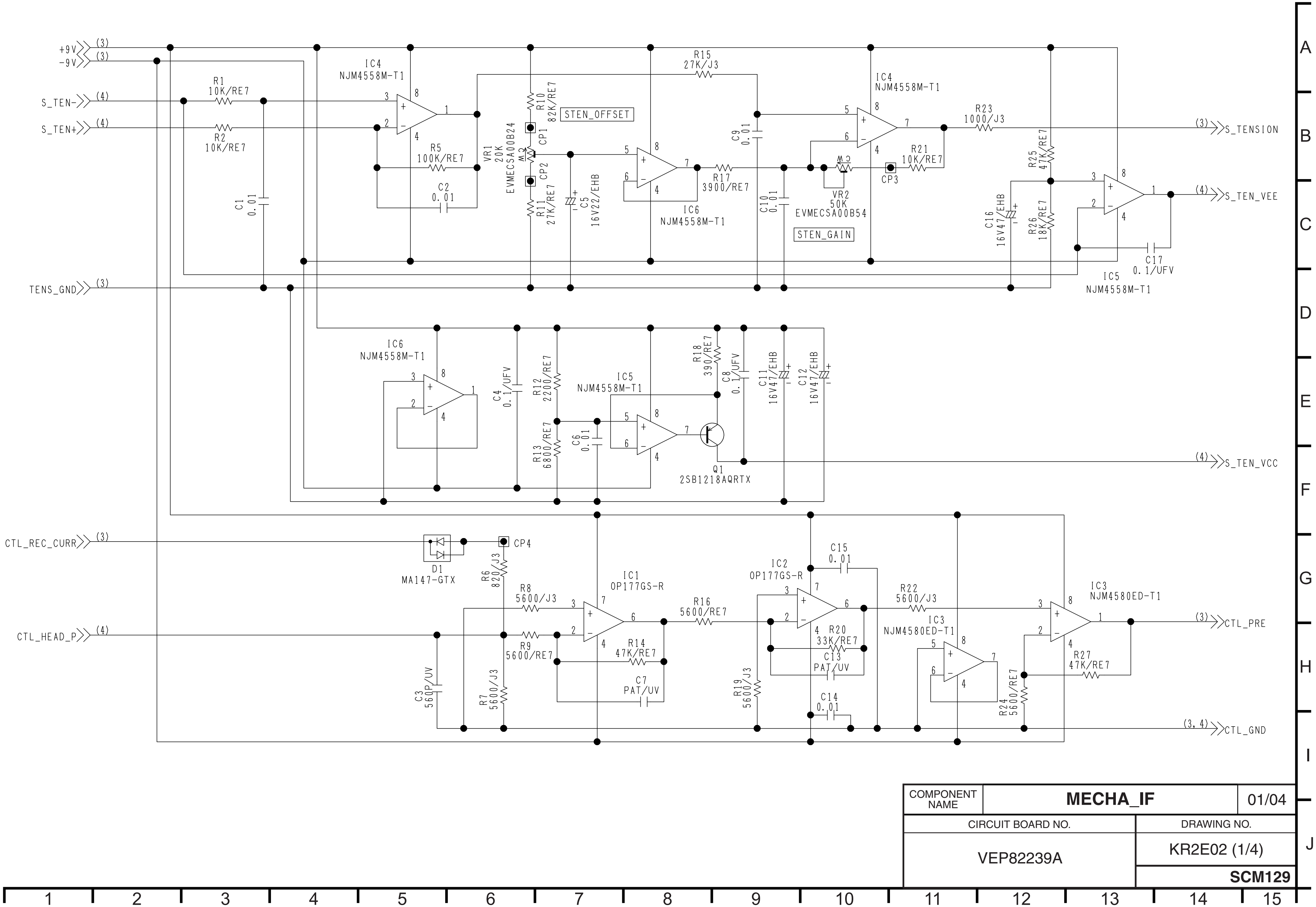

P21
VJP3454B096
CH1_IN_G P1-6B 1A CH1_IN_G
CH2_IN_G P1-7B 2A CH2_IN_G
GND @xre 3A (CUE_IN_G)
4A GND
CH1_OUT_G P1-9B 5A CH1_OUT_G
CH2_OUT_G P1-10B 6A CH2_OUT_G
L_MONI_OUT_G P1-11B 7A L_MONI_OUT_G
R_MONI_OUT_G P1-12B 8A R_MONI_OUT_G
9A (CUE_OUT_G)
AES_GND P7-6A 10A AES_GND
11A GND
VIDEO_OUT3 P3-8C 12A VIDEO_OUT3
4P_C_OUT P3-9B 13A 4P_C_OUT
PR_OUT P3-12A 14A PR_OUT
15A GND
REF_IN P3-12C 16A REF_IN
4P_C_IN P9-10B 17A 4P_C_IN
PR_IN P9-14B 18A PR_IN
19A GND
FAN_PULSE1 P11-7B 20A FAN_STOP
RECEIVE_A_IN_OUT P11-7C 21A RECEIVE_A_IN
TRANSMIT_B_IN_OUT P11-8C 22A TRANSMIT_B_IN
TRANSMIT_A_OUT P11-9C 23A (TRANSMIT_A_OUT)
SET_UP P11-10C 24A SET_UP
SYS_H_PHASE P11-11C 25A SYS_H_PHASE
SYS_SC_CORSE_2 P11-12C 26A SYS_SC_CORSE_2
P_SERIAL_OUT P11-13C 27A (P_SERIAL_OUT)
RS232C_PIN6 P11-14C 28A DSR
RS232C_PIN2 P11-15C 29A TXD
+6V @xre 30A +6V
+12V @xre 31A +12V
GND @xre 32A GND
P21
VJP3454B096
CH1_IN_C P1-6A 1B CH1_IN_C
CH2_IN_C P1-7A 2B CH2_IN_C
3B (CUE_IN_C)
GND @xre 4B GND
CH1_OUT_C P1-9A 5B CH1_OUT_C
CH2_OUT_C P1-10A 6B CH2_OUT_C
L_MONI_OUT_C P1-11A 7B (L_MONI_OUT_C)
R_MONI_OUT_C P1-12A 8B (R_MONI_OUT_C)
9B (CUE_OUT_C)
AES12_OUT P7-6C 10B AES12_OUT
11B GND
VIDEO_OUT2 P3-8A 12B VIDEO_OUT2
13B GND
PB_OUT P3-11B 14B PB_OUT
15B GND
16B GND
17B GND
PB_IN P9-13B 18B PB_IN
19B GND
TC_IN_C P11-6B 20B (TC_IN_C)
TC_OUT_C P11-7A 21B (TC_OUT_C)
TRANSMIT_A_IN_OUT P11-8B 22B TRANSMIT_A_IN
RECEIVE_B_OUT P11-9B 23B (RECEIVE_B_OUT)
VIDEO_GAIN P11-10B 24B VIDEO_GAIN
HUE P11-11B 25B HUE
SYS_SC_CORSE_1 P11-12B 26B SYS_SC_CORSE_1
P_SERIAL_IN P11-13B 27B (P_SERIAL_IN)
STB_CLK16 P11-14B 28B (STB_CLK16)
RS232C_PIN3 P11-15B 29B RXD
-6V @xre 30B -6V
-12V @xre 31B -12V
GND @xre 32B GND
P21
VJP3454B096
CH1_IN_H P1-6C 1C CH1_IN_H
CH2_IN_H P1-6C 2C CH2_IN_H
3C (CUE_IN_H)
GND @xre 4C GND
CH1_OUT_H P1-9C 5C CH1_OUT_H
CH2_OUT_H P1-10C 6C CH2_OUT_H
L_MONI_OUT_H P1-11C 7C L_MONI_OUT_H
R_MONI_OUT_H P1-12C 8C (R_MONI_OUT_H)
9C (CUE_OUT_H)
AES12_IN P7-6B 10C AES12_IN
11C GND
VIDEO_OUT1 P3-7B 12C VIDEO_OUT1
4P_Y_OUT P3-10A 13C 4P_Y_OUT
Y_OUT P3-10C 14C Y_OUT
15C GND
VIDEO_IN P9-7B 16C VIDEO_IN
4P_Y_IN P9-9B 17C 4P_Y_IN
Y_IN P9-12B 18C Y_IN
19C GND
TC_IN_H P11-6A 20C TC_IN_H
TC_OUT_H P11-6C 21C TC_OUT_H
RECEIVE_B_IN_OUT P11-8A 22C RECEIVE_B_IN
RECEIVE_A_OUT P11-9A 23C (RECEIVE_A_OUT)
TRANSMIT_B_OUT P11-10A 24C (TRANSMIT_B_OUT)
C_GAIN P11-11A 25C C_GAIN
SYS_SC_PHASE P11-12A 26C SYS_SC_PHASE
RET_GND P11-13A 27C RET_GND
SERIAL_CLK P11-14A 28C (SERIAL_CLK)
RS232C_PIN20 P11-15A 29C DTR
30C
+5V @xre 31C +5V
GND @xre 32C GND

REAR (VA_JACK)


P20
K1KB22B00010
HP_L P1-20A 1 HP_L
HP_G P1-20C 2 HP_GND
HP_R P1-20B 3 HP_R
HP_MUTE_H P1-21A 4 HP_MUTE_H
+12V @xre 5 +12V
-12V @xre 6 -12V
+6V @xre 7 +6V
F_REC_VR1 P12-25B 8 CH1VR
F_REC_VR2 P12-25C 9 CH2VR
F_VR_GND P12-26B 10 VR_GND
GND @xre 11 GND
12 GND
13 GND
FR_KEY P12-29B 14 FR_KEY
FR_VFD_LED P12-29C 15 FR_VF_DLED
FR_CLK P12-30A 16 FR_CLK
FR_STB P12-30B 17 FR_STB
FR_RST_L P12-30C 18 FR_RST_L
+5V @xre 19 +5V
20 +5V
21 +5V
22 +5V

FRONT

COMPONENT NAME	MOTHER		10/10
CIRCUIT BOARD NO.		DRAWING NO.	
VEP80C14A		KR0Q24 (10/10)	
		SCM128	


+9V
-9V
(3)
S_TEN-
S_TEN+
(4)
TENS_GND
CTL_REC_CURR
CTL_HEAD_P
IC4
NJM4558M-T1
R1
10K/RE7
R2
10K/RE7
R5
100K/RE7
C2
0.01
C1
0.01
VR1
20K
EVMECSA00B24
CP1
CP2
R10
82K/RE7
R11
27K/RE7
C5
16V22/EHB
STEN_OFFSET
R15
27K/J3
IC6
NJM4558M-T1
R17
3900/RE7
C9
0.01
C10
0.01
VR2
50K
EVMECSA00B54
STEN_GAIN
CP3
R21
10K/RE7
R23
1000/J3
S_TENSION
R25
47K/RE7
R26
18K/RE7
C16
16V47/EHB
IC5
NJM4558M-T1
C17
0.1/UFV
S_TEN_VEE
C4
0.1/UFV
R12
2200/RE7
R13
6800/RE7
C6
0.01
IC5
NJM4558M-T1
R18
390/RE7
C8
0.1/UFV
C11
16V47/EHB
C12
16V47/EHB
Q1
2SB1218AQRTX
S_TEN_VCC
D1
MA147-GTX
CP4
R6
820/J3
R8
5600/J3
R9
5600/RE7
R7
5600/J3
C3
560P/UV
IC1
OP177GS-R
R14
47K/RE7
C7
PAT/UV
R16
5600/RE7
IC2
OP177GS-R
C15
0.01
R19
5600/J3
R20
33K/RE7
C13
PAT/UV
C14
0.01
R22
5600/J3
IC3
NJM4580ED-T1
R24
5600/RE7
R27
47K/RE7
CTL_PRE
(3,4)
CTL_GND
A
B
C
D
E
F
G
H
I
J
1
2
3
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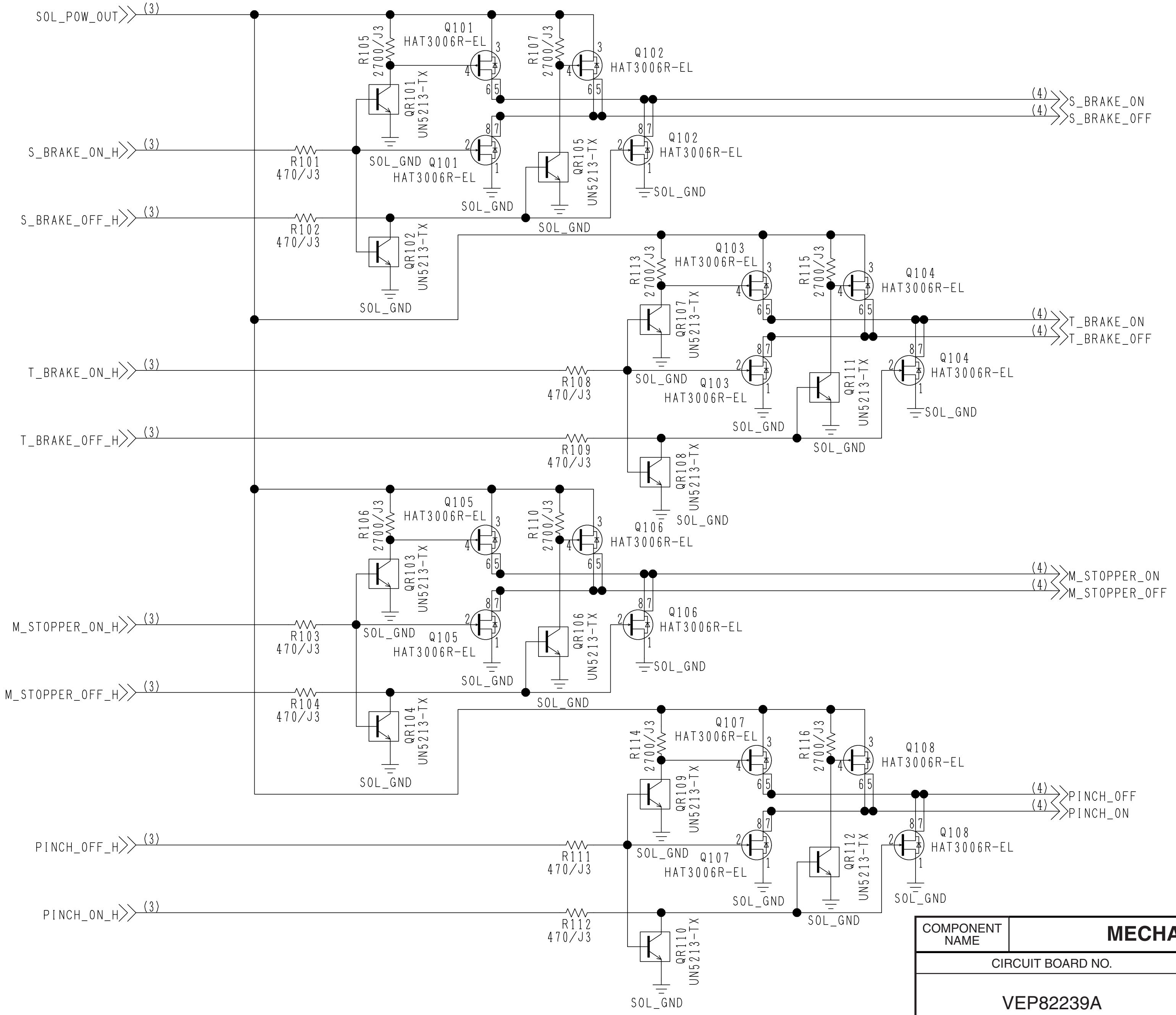
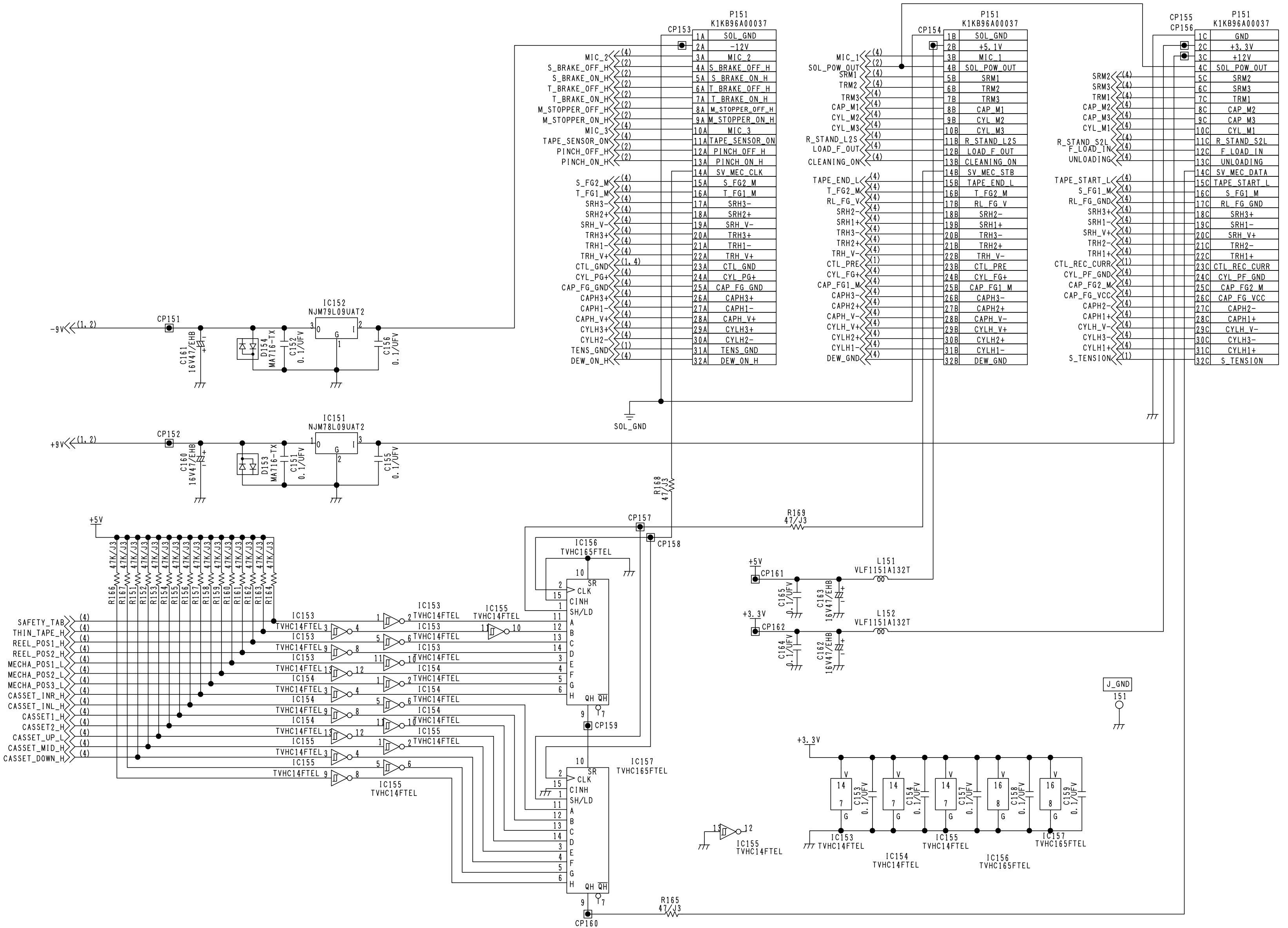
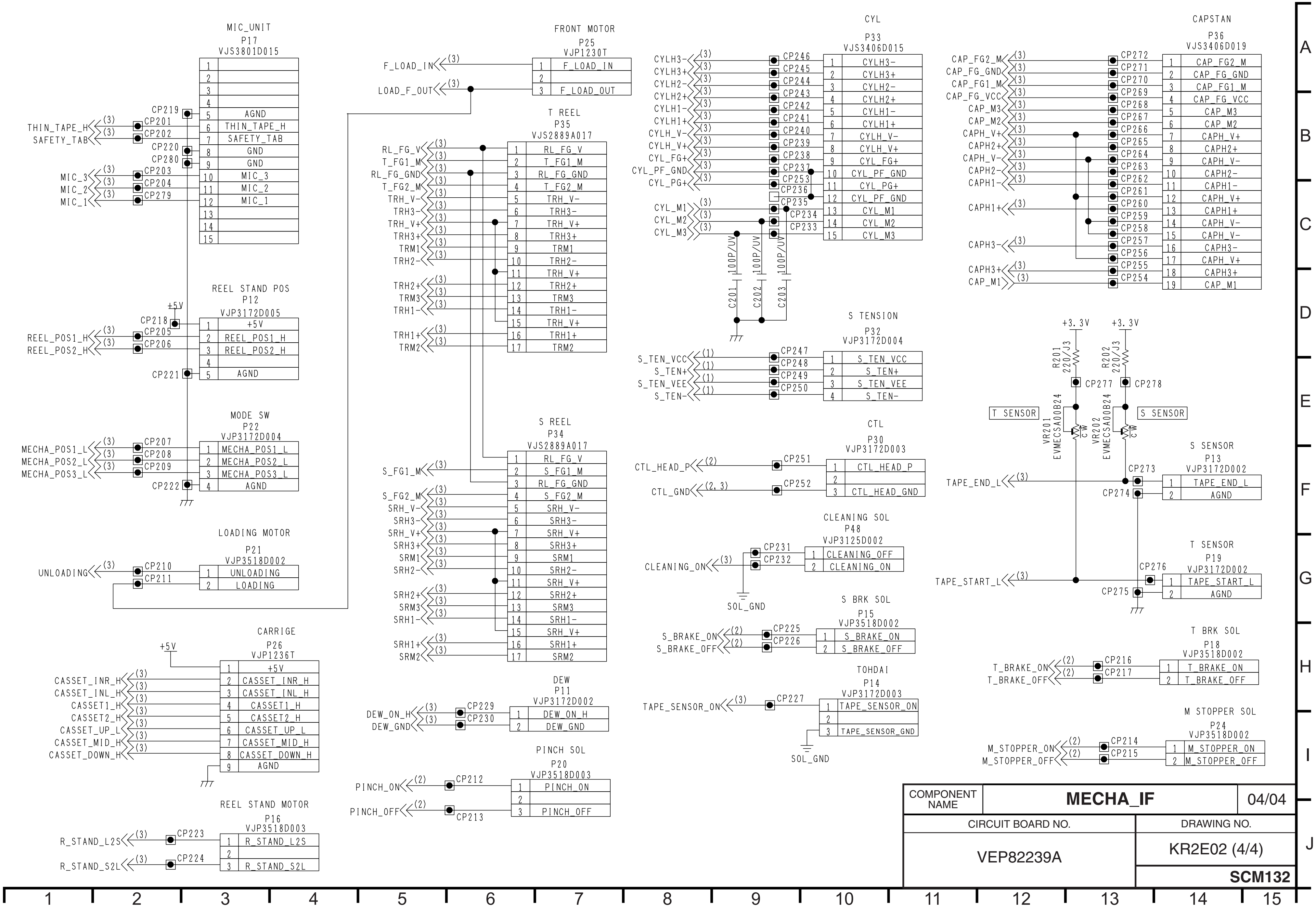
COMPONENT NAME	MECHA_IF	01/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82239A	KR2E02 (1/4)	
	SCM129	


SOL_POW_OUT (3)
S_BRAKE_ON_H (3)
S_BRAKE_OFF_H (3)
T_BRAKE_ON_H (3)
T_BRAKE_OFF_H (3)
M_STOPPER_ON_H (3)
M_STOPPER_OFF_H (3)
PINCH_OFF_H (3)
PINCH_ON_H (3)
(4) S_BRAKE_ON
(4) S_BRAKE_OFF
(4) T_BRAKE_ON
(4) T_BRAKE_OFF
(4) M_STOPPER_ON
(4) M_STOPPER_OFF
(4) PINCH_OFF
(4) PINCH_ON
R101 470/J3
R102 470/J3
R103 470/J3
R104 470/J3
R108 470/J3
R109 470/J3
R111 470/J3
R112 470/J3
R105 2700/J3
R106 2700/J3
R107 2700/J3
R110 2700/J3
R113 2700/J3
R114 2700/J3
R115 2700/J3
R116 2700/J3
Q101 HAT3006R-EL
Q102 HAT3006R-EL
Q103 HAT3006R-EL
Q104 HAT3006R-EL
Q105 HAT3006R-EL
Q106 HAT3006R-EL
Q107 HAT3006R-EL
Q108 HAT3006R-EL
QR101 UN5213-TX
QR102 UN5213-TX
QR103 UN5213-TX
QR104 UN5213-TX
QR105 UN5213-TX
QR106 UN5213-TX
QR107 UN5213-TX
QR108 UN5213-TX
QR109 UN5213-TX
QR110 UN5213-TX
QR111 UN5213-TX
QR112 UN5213-TX
SOL_GND
1
2
3
4
5
6
7
8

COMPONENT NAME	**MECHA_IF**	02/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82239A	KR2E02 (2/4)	
	SCM130	


P151
K1KB96A00037
CP153
CP154
CP155
CP156
1A SOL_GND
2A -12V
3A MIC_2
4A S_BRAKE_OFF_H
5A S_BRAKE_ON_H
6A T_BRAKE_OFF_H
7A T_BRAKE_ON_H
8A M_STOPPER_OFF_H
9A M_STOPPER_ON_H
10A MIC_3
11A TAPE_SENSOR_ON
12A PINCH_OFF_H
13A PINCH_ON_H
14A SV_MEC_CLK
15A S_FG2_M
16A T_FG1_M
17A SRH3-
18A SRH2+
19A SRH_V-
20A TRH3+
21A TRH1-
22A TRH_V+
23A CTL_GND
24A CYL_PG+
25A CAP_FG_GND
26A CAPH3+
27A CAPH1-
28A CAPH_V+
29A CYLH3+
30A CYLH2-
31A TENS_GND
32A DEW_ON_H
1B SOL_GND
2B +5.1V
3B MIC_1
4B SOL_POW_OUT
5B SRM1
6B TRM2
7B TRM3
8B CAP_M1
9B CYL_M2
10B CYL_M3
11B R_STAND_L2S
12B LOAD_F_OUT
13B CLEANING_ON
14B SV_MEC_STB
15B TAPE_END_L
16B T_FG2_M
17B RL_FG_V
18B SRH2-
19B SRH1+
20B TRH3-
21B TRH2+
22B TRH_V-
23B CTL_PRE
24B CYL_FG+
25B CAP_FG1_M
26B CAPH3-
27B CAPH2+
28B CAPH_V-
29B CYLH_V+
30B CYLH2+
31B CYLH1-
32B DEW_GND
1C GND
2C +3.3V
3C +12V
4C SOL_POW_OUT
5C SRM2
6C SRM3
7C TRM1
8C CAP_M2
9C CAP_M3
10C CYL_M1
11C R_STAND_S2L
12C F_LOAD_IN
13C UNLOADING
14C SV_MEC_DATA
15C TAPE_START_L
16C S_FG1_M
17C RL_FG_GND
18C SRH3+
19C SRH1-
20C SRH_V+
21C TRH2-
22C TRH1+
23C CTL_REC_CURR
24C CYL_PF_GND
25C CAP_FG2_M
26C CAP_FG_VCC
27C CAPH2-
28C CAPH1+
29C CYLH_V-
30C CYLH3-
31C CYLH1+
32C S_TENSION
SOL_GND
-9V (1,2)
CP151
C161 16V47/EHB
D154 MA716-TX
C152 0.1/UFV
IC152 NJM79L09UAT2
C156 0.1/UFV
+9V (1,2)
CP152
C160 16V47/EHB
D153 MA716-TX
C151 0.1/UFV
IC151 NJM78L09UAT2
C155 0.1/UFV
R168 47/J3
R169 47/J3
CP157
CP158
CP159
CP160
R165 47/J3
+5V
R166–R164 47K/J3
SAFETY_TAB
THIN_TAPE_H
REEL_POS1_H
REEL_POS2_H
MECHA_POS1_L
MECHA_POS2_L
MECHA_POS3_L
CASSET_INR_H
CASSET_INL_H
CASSET1_H
CASSET2_H
CASSET_UP_L
CASSET_MID_H
CASSET_DOWN_H
IC153 TVHC14FTEL
IC154 TVHC14FTEL
IC155 TVHC14FTEL
IC156 TVHC165FTEL
IC157 TVHC165FTEL
+5V CP161
C165 0.1/UFV
C163 16V47/EHB
L151 VLF1151A132T
+3.3V CP162
C164 0.1/UFV
C162 16V47/EHB
L152 VLF1151A132T
J_GND 151
+3.3V
C153 0.1/UFV
C154 0.1/UFV
C157 0.1/UFV
C158 0.1/UFV
C159 0.1/UFV

COMPONENT NAME	**MECHA_IF**	03/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82239A	KR2E02 (3/4)	
	SCM131	


MIC_UNIT
P17
VJS3801D015
AGND
THIN_TAPE_H
SAFETY_TAB
GND
GND
MIC_3
MIC_2
MIC_1
CP219
CP201
CP202
CP220
CP280
CP203
CP204
CP279
REEL STAND POS
P12
VJP3172D005
+5V
REEL_POS1_H
REEL_POS2_H
AGND
CP218
CP205
CP206
CP221
MODE SW
P22
VJP3172D004
MECHA_POS1_L
MECHA_POS2_L
MECHA_POS3_L
AGND
CP207
CP208
CP209
CP222
LOADING MOTOR
P21
VJP3518D002
UNLOADING
LOADING
CP210
CP211
CARRIGE
P26
VJP1236T
+5V
CASSET_INR_H
CASSET_INL_H
CASSET1_H
CASSET2_H
CASSET_UP_L
CASSET_MID_H
CASSET_DOWN_H
AGND
REEL STAND MOTOR
P16
VJP3518D003
R_STAND_L2S
R_STAND_S2L
CP223
CP224
FRONT MOTOR
P25
VJP1230T
F_LOAD_IN
F_LOAD_OUT
LOAD_F_OUT
T REEL
P35
VJS2889A017
RL_FG_V
T_FG1_M
RL_FG_GND
T_FG2_M
TRH_V-
TRH3-
TRH_V+
TRH3+
TRM1
TRH2-
TRH_V+
TRH2+
TRM3
TRH1-
TRH_V+
TRH1+
TRM2
S REEL
P34
VJS2889A017
RL_FG_V
S_FG1_M
RL_FG_GND
S_FG2_M
SRH_V-
SRH3-
SRH_V+
SRH3+
SRM1
SRH2-
SRH_V+
SRH2+
SRM3
SRH1-
SRH_V+
SRH1+
SRM2
DEW
P11
VJP3172D002
DEW_ON_H
DEW_GND
CP229
CP230
PINCH SOL
P20
VJP3518D003
PINCH_ON
PINCH_OFF
CP212
CP213
CYL
P33
VJS3406D015
CYLH3-
CYLH3+
CYLH2-
CYLH2+
CYLH1-
CYLH1+
CYLH_V-
CYLH_V+
CYL_FG+
CYL_PF_GND
CYL_PG+
CYL_PF_GND
CYL_M1
CYL_M2
CYL_M3
CP246
CP245
CP244
CP243
CP242
CP241
CP240
CP239
CP238
CP237
CP253
CP236
CP235
CP234
CP233
C201 100P/UV
C202 100P/UV
C203 100P/UV
S TENSION
P32
VJP3172D004
S_TEN_VCC
S_TEN+
S_TEN_VEE
S_TEN-
CP247
CP248
CP249
CP250
CTL
P30
VJP3172D003
CTL_HEAD_P
CTL_HEAD_GND
CTL_GND
CP251
CP252
CLEANING SOL
P48
VJP3125D002
CLEANING_OFF
CLEANING_ON
CP231
CP232
SOL_GND
S BRK SOL
P15
VJP3518D002
S_BRAKE_ON
S_BRAKE_OFF
CP225
CP226
TOHDAI
P14
VJP3172D003
TAPE_SENSOR_ON
TAPE_SENSOR_GND
CP227
SOL_GND
CAPSTAN
P36
VJS3406D019
CAP_FG2_M
CAP_FG_GND
CAP_FG1_M
CAP_FG_VCC
CAP_M3
CAP_M2
CAPH_V+
CAPH2+
CAPH_V-
CAPH2-
CAPH1-
CAPH_V+
CAPH1+
CAPH_V-
CAPH_V-
CAPH3-
CAPH_V+
CAPH3+
CAP_M1
CP272
CP271
CP270
CP269
CP268
CP267
CP266
CP265
CP264
CP263
CP262
CP261
CP260
CP259
CP258
CP257
CP256
CP255
CP254
+3.3V
R201 220/J3
R202 220/J3
CP277
CP278
T SENSOR
S SENSOR
VR201 EVMECSA00B24
VR202 EVMECSA00B24
CW
S SENSOR
P13
VJP3172D002
TAPE_END_L
AGND
CP273
CP274
T SENSOR
P19
VJP3172D002
TAPE_START_L
AGND
CP276
CP275
T BRK SOL
P18
VJP3518D002
T_BRAKE_ON
T_BRAKE_OFF
CP216
CP217
M STOPPER SOL
P24
VJP3518D002
M_STOPPER_ON
M_STOPPER_OFF
CP214
CP215
A
B
C
D
E
F
G
H
I
J
1
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3
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6
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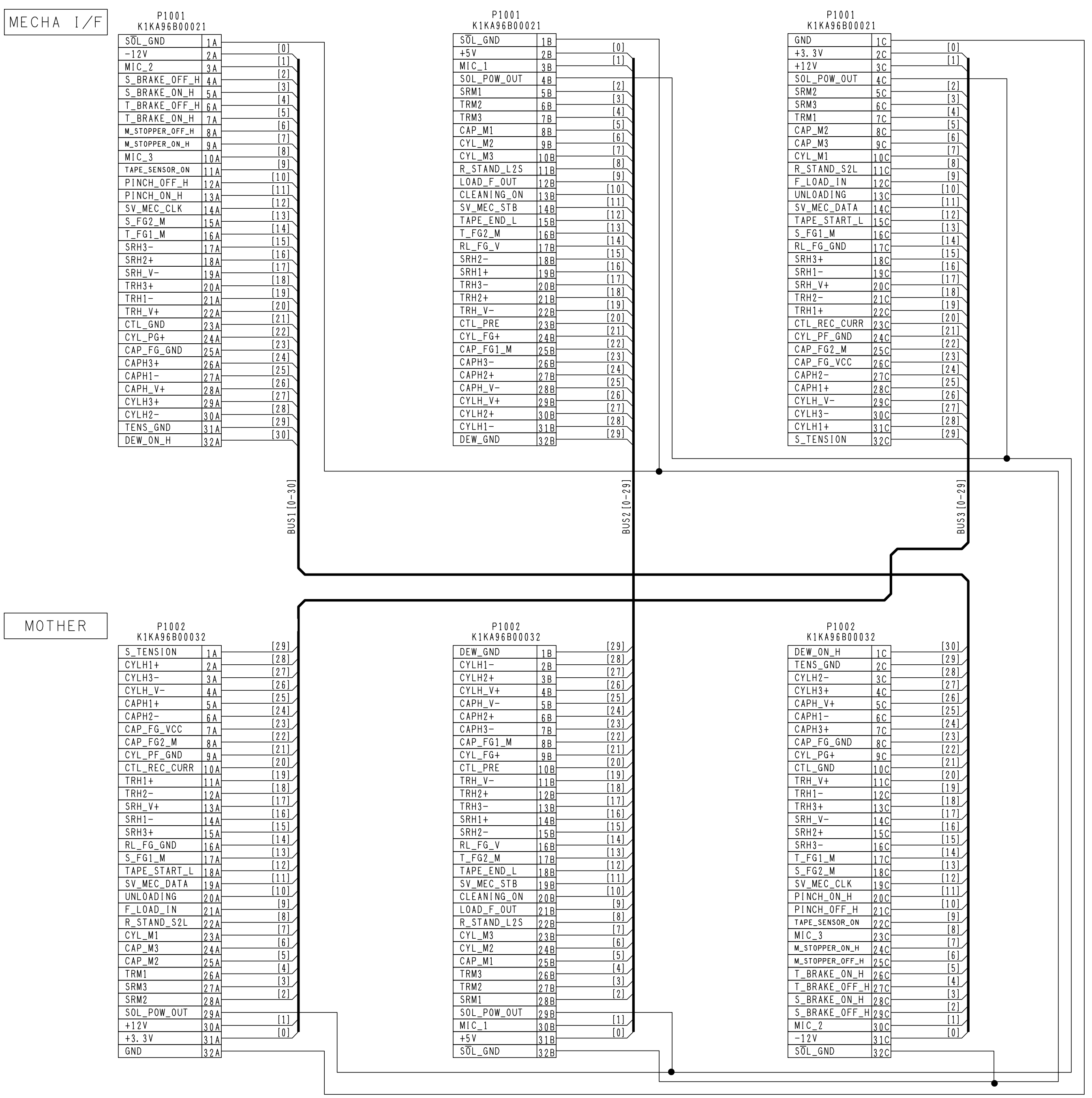
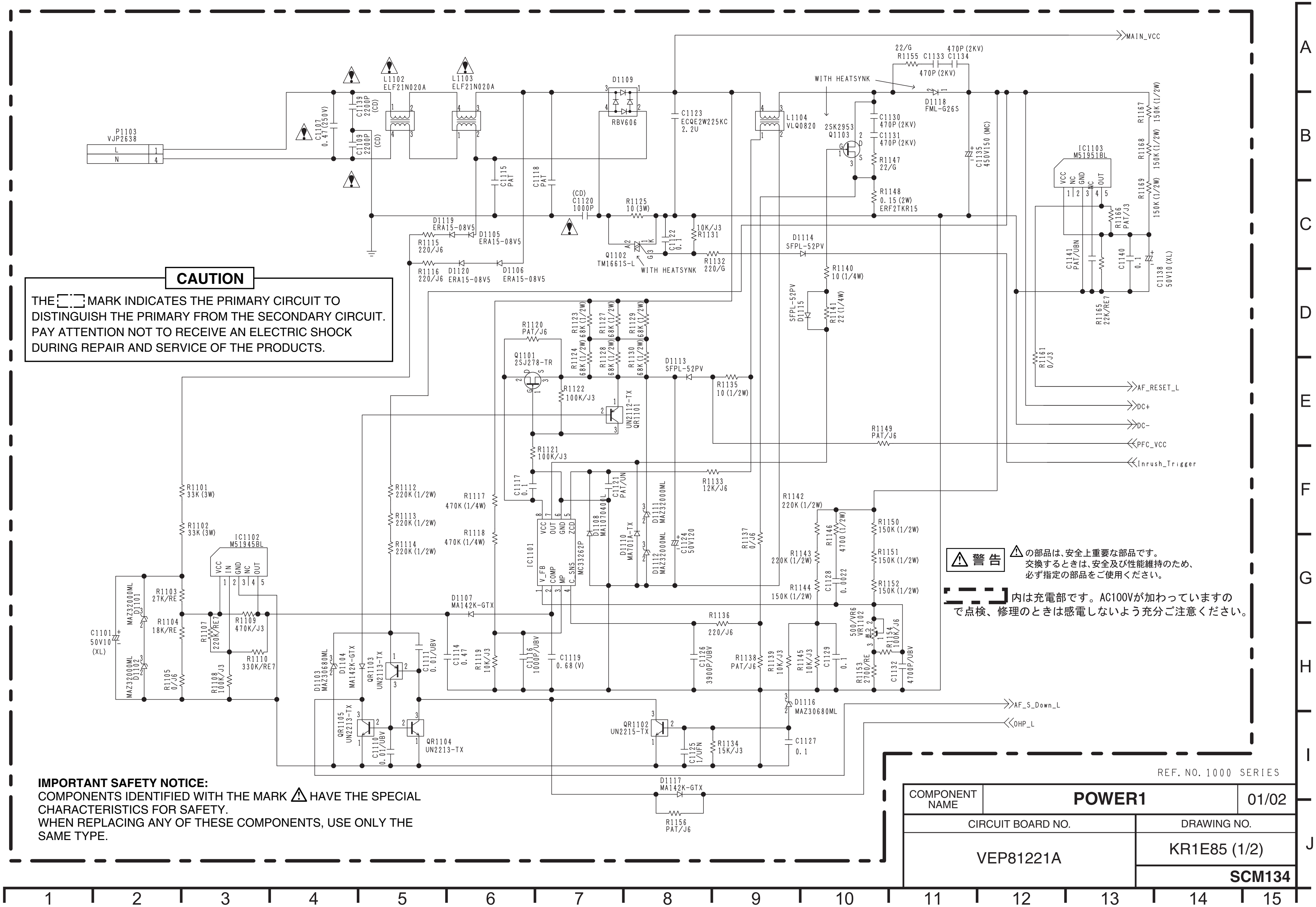
COMPONENT NAME	MECHA_IF	04/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82239A	KR2E02 (4/4)	
	SCM132	



MECHA I/F
P1001
K1KA96B00021
SOL_GND 1A
-12V 2A
MIC_2 3A
S_BRAKE_OFF_H 4A
S_BRAKE_ON_H 5A
T_BRAKE_OFF_H 6A
T_BRAKE_ON_H 7A
M_STOPPER_OFF_H 8A
M_STOPPER_ON_H 9A
MIC_3 10A
TAPE_SENSOR_ON 11A
PINCH_OFF_H 12A
PINCH_ON_H 13A
SV_MEC_CLK 14A
S_FG2_M 15A
T_FG1_M 16A
SRH3- 17A
SRH2+ 18A
SRH_V- 19A
TRH3+ 20A
TRH1- 21A
TRH_V+ 22A
CTL_GND 23A
CYL_PG+ 24A
CAP_FG_GND 25A
CAPH3+ 26A
CAPH1- 27A
CAPH_V+ 28A
CYLH3+ 29A
CYLH2- 30A
TENS_GND 31A
DEW_ON_H 32A
P1001
K1KA96B00021
SOL_GND 1B
+5V 2B
MIC_1 3B
SOL_POW_OUT 4B
SRM1 5B
TRM2 6B
TRM3 7B
CAP_M1 8B
CYL_M2 9B
CYL_M3 10B
R_STAND_L2S 11B
LOAD_F_OUT 12B
CLEANING_ON 13B
SV_MEC_STB 14B
TAPE_END_L 15B
T_FG2_M 16B
RL_FG_V 17B
SRH2- 18B
SRH1+ 19B
TRH3- 20B
TRH2+ 21B
TRH_V- 22B
CTL_PRE 23B
CYL_FG+ 24B
CAP_FG1_M 25B
CAPH3- 26B
CAPH2+ 27B
CAPH_V- 28B
CYLH_V+ 29B
CYLH2+ 30B
CYLH1- 31B
DEW_GND 32B
P1001
K1KA96B00021
GND 1C
+3.3V 2C
+12V 3C
SOL_POW_OUT 4C
SRM2 5C
SRM3 6C
TRM1 7C
CAP_M2 8C
CAP_M3 9C
CYL_M1 10C
R_STAND_S2L 11C
F_LOAD_IN 12C
UNLOADING 13C
SV_MEC_DATA 14C
TAPE_START_L 15C
S_FG1_M 16C
RL_FG_GND 17C
SRH3+ 18C
SRH1- 19C
SRH_V+ 20C
TRH2- 21C
TRH1+ 22C
CTL_REC_CURR 23C
CYL_PF_GND 24C
CAP_FG2_M 25C
CAP_FG_VCC 26C
CAPH2- 27C
CAPH1+ 28C
CYLH_V- 29C
CYLH3- 30C
CYLH1+ 31C
S_TENSION 32C
BUS1[0-30]
BUS2[0-29]
BUS3[0-29]
MOTHER
P1002
K1KA96B00032
S_TENSION 1A
CYLH1+ 2A
CYLH3- 3A
CYLH_V- 4A
CAPH1+ 5A
CAPH2- 6A
CAP_FG_VCC 7A
CAP_FG2_M 8A
CYL_PF_GND 9A
CTL_REC_CURR 10A
TRH1+ 11A
TRH2- 12A
SRH_V+ 13A
SRH1- 14A
SRH3+ 15A
RL_FG_GND 16A
S_FG1_M 17A
TAPE_START_L 18A
SV_MEC_DATA 19A
UNLOADING 20A
F_LOAD_IN 21A
R_STAND_S2L 22A
CYL_M1 23A
CAP_M3 24A
CAP_M2 25A
TRM1 26A
SRM3 27A
SRM2 28A
SOL_POW_OUT 29A
+12V 30A
+3.3V 31A
GND 32A
P1002
K1KA96B00032
DEW_GND 1B
CYLH1- 2B
CYLH2+ 3B
CYLH_V+ 4B
CAPH_V- 5B
CAPH2+ 6B
CAPH3- 7B
CAP_FG1_M 8B
CYL_FG+ 9B
CTL_PRE 10B
TRH_V- 11B
TRH2+ 12B
TRH3- 13B
SRH1+ 14B
SRH2- 15B
RL_FG_V 16B
T_FG2_M 17B
TAPE_END_L 18B
SV_MEC_STB 19B
CLEANING_ON 20B
LOAD_F_OUT 21B
R_STAND_L2S 22B
CYL_M3 23B
CYL_M2 24B
CAP_M1 25B
TRM3 26B
TRM2 27B
SRM1 28B
SOL_POW_OUT 29B
MIC_1 30B
+5V 31B
SOL_GND 32B
P1002
K1KA96B00032
DEW_ON_H 1C
TENS_GND 2C
CYLH2- 3C
CYLH3+ 4C
CAPH_V+ 5C
CAPH1- 6C
CAPH3+ 7C
CAP_FG_GND 8C
CYL_PG+ 9C
CTL_GND 10C
TRH_V+ 11C
TRH1- 12C
TRH3+ 13C
SRH_V- 14C
SRH2+ 15C
SRH3- 16C
T_FG1_M 17C
S_FG2_M 18C
SV_MEC_CLK 19C
PINCH_ON_H 20C
PINCH_OFF_H 21C
TAPE_SENSOR_ON 22C
MIC_3 23C
M_STOPPER_ON_H 24C
M_STOPPER_OFF_H 25C
T_BRAKE_ON_H 26C
T_BRAKE_OFF_H 27C
S_BRAKE_ON_H 28C
S_BRAKE_OFF_H 29C
MIC_2 30C
-12V 31C
SOL_GND 32C

COMPONENT NAME	**MECHA_IF2**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82240A	KR2E03 (1/1)	
	SCM133	


P1103
VJP2638
L
N
C1107
0.47(250V)
C1139
2200P
(CD)
C1109
2200P
(CD)
L1102
ELF21N020A
L1103
ELF21N020A
C1115
PAT
C1118
PAT
D1109
RBV606
C1123
ECQE2W225KC
2.2U
L1104
VLQ0820
(CD)
C1120
1000P
R1125
10(3W)
C1122
0.1
10K/J3
R1131
Q1102
TM1661S-L
WITH HEATSYNK
R1132
220/G
D1119
ERA15-08V5
D1105
ERA15-08V5
R1115
220/J6
R1116
220/J6
D1120
ERA15-08V5
D1106
ERA15-08V5
D1114
SFPL-52PV
R1140
10(1/4W)
D1115
SFPL-52PV
R1141
22(1/4W)
22/G
R1155
C1133
C1134
470P(2KV)
WITH HEATSYNK
D1118
FML-G26S
2SK2953
Q1103
C1130
470P(2KV)
C1131
470P(2KV)
R1147
22/G
R1148
0.15(2W)
ERF2TKR15
C1135
450V150(MC)
MAIN_VCC
R1167
150K(1/2W)
R1168
150K(1/2W)
R1169
150K(1/2W)
IC1103
M51951BL
VCC
NC
GND
NC
OUT
R1166
PAT/J3
C1141
PAT/UBN
C1140
0.1
C1138
50V10(XL)
R1165
22K/RE7
R1161
0/J3
AF_RESET_L
DC+
DC-
PFC_VCC
Inrush_Trigger
R1120
PAT/J6
Q1101
2SJ278-TR
R1123
68K(1/2W)
R1124
68K(1/2W)
R1127
68K(1/2W)
R1128
68K(1/2W)
R1129
68K(1/2W)
R1130
68K(1/2W)
D1113
SFPL-52PV
R1135
10(1/2W)
R1122
100K/J3
UN2112-TX
QR1101
R1149
PAT/J6
R1121
100K/J3
C1117
0.1
C1121
PAT/UN
R1133
12K/J6
R1142
220K(1/2W)
R1101
33K(3W)
R1102
33K(3W)
R1112
220K(1/2W)
R1113
220K(1/2W)
R1114
220K(1/2W)
R1117
470K(1/4W)
R1118
470K(1/4W)
IC1101
MC33262P
V_FB
COMP
MP
C_SNS
VCC
OUT
GND
ZCD
D1108
MA1070400L
D1110
MA701A-TX
D1111
MAZ32000ML
D1112
MAZ32000ML
C1124
50V120
R1137
0/J6
R1143
220K(1/2W)
R1146
4700(1/2W)
R1150
150K(1/2W)
R1151
150K(1/2W)
R1152
150K(1/2W)
R1144
150K(1/2W)
C1128
0.0022
IC1102
M51945BL
VCC
IN
GND
NC
OUT
R1103
27K/RE
D1101
MAZ32000ML
R1104
18K/RE
C1101
50V10
(XL)
D1102
MAZ32000ML
R1105
0/J6
R1107
220K/RE7
R1108
100K/J3
R1109
470K/J3
R1110
330K/RE7
D1107
MA142K-GTX
R1136
220/J6
VR1102
500/VR6
R1154
100K/J6
D1103
MAZ30680ML
D1104
MA142K-GTX
QR1103
UN2113-TX
C1111
0.01/UBV
C1114
0.47
R1119
10K/J3
C1116
1000P/UBV
C1119
0.68(V)
C1126
3900P/UBV
R1138
PAT/J6
R1139
10K/J3
R1145
10K/J3
C1129
0.1
R1153
2700/RE
C1132
4700P/UBV
D1116
MAZ30680ML
AF_S_Down_L
OHP_L
QR1105
UN2213-TX
C1110
0.01/UBV
QR1104
UN2213-TX
QR1102
UN2215-TX
C1125
1/UFN
R1134
15K/J3
C1127
0.1
D1117
MA142K-GTX
R1156
PAT/J6
A
B
C
D
E
F
G
H
I
J
1
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CAUTION

THE ┌ ┐ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

⚠ 警 告 ⚠ の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

┌ ┐ 内は充電部です。AC100Vが加わっていますので点検、修理のときは感電しないよう充分ご注意ください。

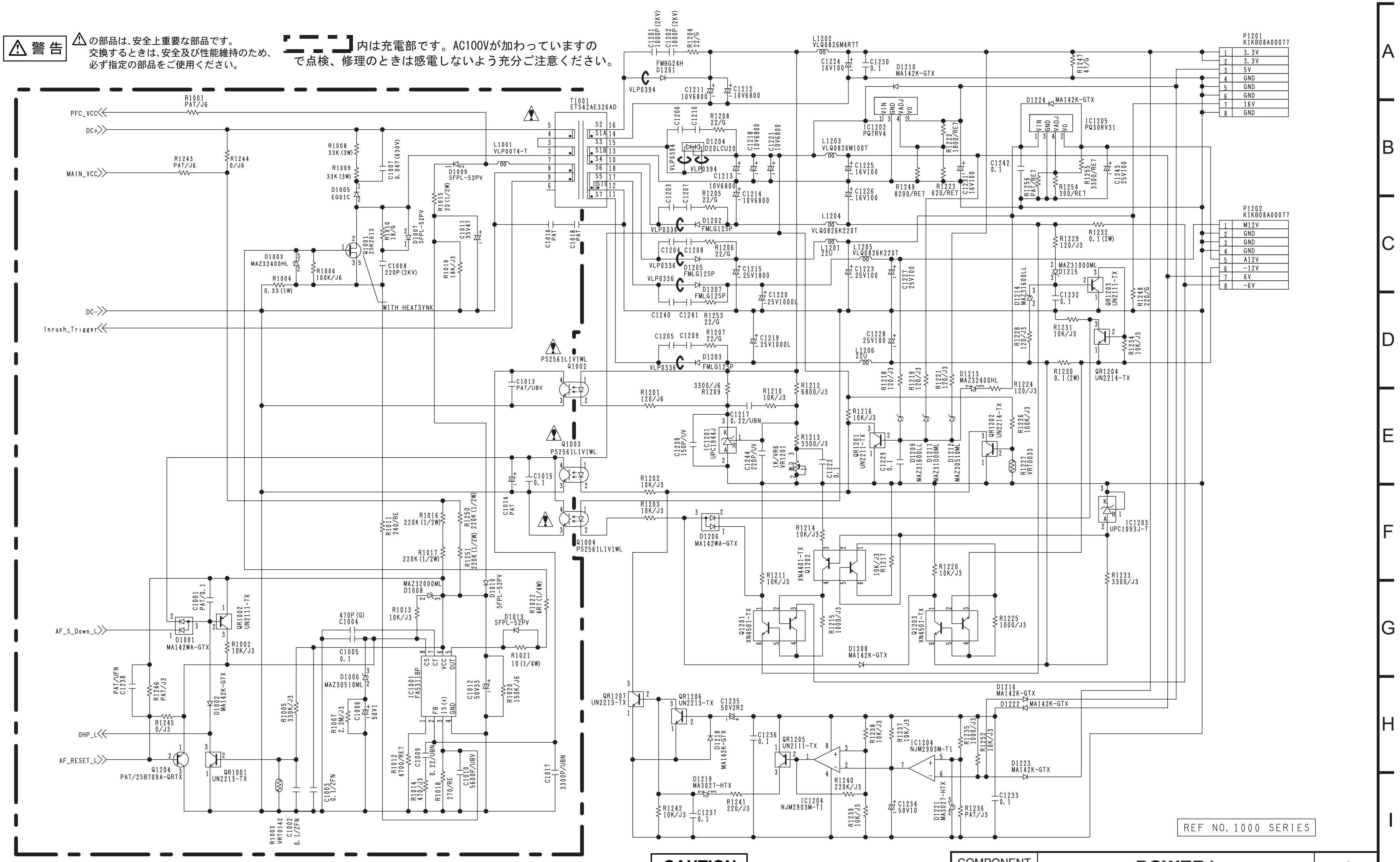
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

REF. NO. 1000 SERIES

COMPONENT NAME	POWER1	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81221A	KR1E85 (1/2)	
	SCM134	

⚠ 警 告 ⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

内は充電部です。AC100Vが加わっていますので点検、修理のときは感電しないよう充分ご注意ください。


PFC_VCC
DC+
MAIN_VCC
DC-
Inrush_Trigger
AF_S_Down_L
OHP_L
AF_RESET_L
R1001 PAT/J6
R1243 PAT/J6
R1244 0/J6
R1008 33K(3W)
R1009 33K(3W)
D1005 EG01C
C1007 0.047(630V)
D1009 SFPL-52PV
L1001 VLP0074-T
T1001 ETS42AE326AD
R1015 22(1/2W)
C1011 35V47
R1010 18/G
D1007 SFPL-52PV
Q1001 2SK2613
C1008 220P(2KV)
D1003 MAZ32400HL
R1006 100K/J6
R1004 0.33(1W)
R1019 18K/J3
WITH HEATSYNK
C1016 PAT
C1018 PAT
PS2561L1V1WL Q1002
C1013 PAT/UBV
Q1003 PS2561L1V1WL
C1015 0.1
C1014 PAT
Q1004 PS2561L1V1WL
R1011 240/RE
R1016 220K(1/2W)
R1250 220K(1/2W)
R1017 220K(1/2W)
R1251 220K(1/2W)
MAZ32000ML D1008
R1013 10K/J3
D1010 SFPL-52PV
R1022 4R7(1/4W)
D1013 SFPL-52PV
R1021 10(1/4W)
C1001 PAT/J1
QR1002 UN2111-TX
D1001 MA142WA-GTX
R1002 10K/J3
470P(G) C1004
C1005 0.1
D1006 MAZ30510ML
IC1001 FA5311BP
CS CT VCC OUT FB IS(+) GND
C1012 50V33
R1020 150K/J6
C1238 PAT/UFN
R1246 PAT/J3
D1002 MA142K-GTX
R1245 0/J3
R1005 330K/J3
R1007 2.2M/J3
C1006 50V1
R1012 4700/RE7
C1009 0.22/UBN
C1010 5600P/UBV
R1014 470/J3
R1018 270/RE
Q1204 PAT/2SB709A-QRTX
QR1001 UN2213-TX
R1003 VRT0142
C1002 0.1/ZFN
C1003 0.1/ZFN
C1017 3300P/UBN
C1201 1000P(2KV)
C1202 1000P(2KV)
R1204 22/G
FMBG24H D1201
VLP0394
C1211 10V6800
C1212 10V6800
C1206
C1210
R1208 22/G
D1204 D20LCU20
C1218 10V6800
C1221 10V6800
C1213 10V6800
R1205 22/G
C1214 10V6800
C1203
C1207
D1202 FMLG12SP
VLP0336
C1204 C1208
R1206 22/G
D1205 FMLG12SP
C1215 25V1800
D1207 FMLG12SP
C1220 25V1000L
C1240 C1241 R1253 22/G
C1205 C1209 R1207 22/G
C1219 25V1000L
D1203 FMLG12SP
L1202 VLQ0826M4R7T
C1224 16V100
C1230 0.1
D1210 MA142K-GTX
R1247 47/G
IC1202 PQ7RV4
VIN GND VADJ VO
L1203 VLQ0826M100T
C1225 16V100
C1226 16V100
R1249 8200/RE7
R1223 620/RE7
R1222 1800/RE7
C1231 16V100
C1242 0.1
D1224 MA142K-GTX
IC1205 PQ30RV31
R1256 PAT/RE7
R1254 390/RE7
R1255 3300/RE7
C1243 25V100
L1204 VLQ0826K220T
L1201 220
L1205 VLQ0826K220T
C1223 25V100
C1227 25V100
C1228 25V100
L1206 220
R1229 120/J3
R1232 0.1(2W)
MAZ31000ML D1215
QR1203 UN2111-TX
D1214 MAZ31600LL
C1232 0.1
R1248 220/G
R1231 10K/J3
R1228 120/J3
R1234 10K/J3
R1230 0.1(2W)
QR1204 UN2214-TX
R1218 120/J3
R1219 120/J3
R1271 120/J3
D1213 MAZ32400HL
R1224 120/J3
R1201 120/J6
3300/J6 R1209
R1210 10K/J3
R1212 6800/J3
C1217 0.22/UBN
C1239 15P/UV
IC1201 UPC1944U
C1244 220P/UV
1K/VR6 VR1201
R1213 3300/J3
C1222 0.1
R1216 10K/J3
QR1201 UN2211-TX
C1229 0.1
D1209 MAZ31600LL
D1211 MAZ31000ML
D1212 MAZ30510ML
QR1202 UN2214-TX
R1226 100K/J3
R1227 VRT0033
R1202 10K/J3
R1203 10K/J3
D1206 MA142WA-GTX
IC1203 UPC1093J-T
R1214 10K/J3
XN4401-TX Q1202
R1217 10K/J3
R1211 10K/J3
R1220 10K/J3
R1233 3300/J3
Q1201 XN4501-TX
R1215 1000/J3
Q1203 XN4501-TX
R1225 1000/J3
D1208 MA142K-GTX
QR1207 UN2213-TX
QR1206 UN2213-TX
C1235 50V2R2
D1216 MA142K-GTX
D1222 MA142K-GTX
C1236 0.1
D1218 MA142K-GTX
QR1205 UN2111-TX
R1238 10K/J3
R1237 10K/J3
IC1204 NJM2903M-T1
R1235 1000/J3
R1252 10K/J3
D1223 MA142K-GTX
D1219 MA3027-HTX
R1240 220K/J3
R1241 220/J3
R1242 10K/J3
C1237 0.1
R1239 10K/J3
C1234 50V10
D1221 MA3027-HTX
R1236 PAT/J3
C1233 0.1
P1201 K1KB08A00077
1 3.3V
2 3.3V
3 5V
4 GND
5 GND
6 GND
7 16V
8 GND
P1202 K1KB08A00077
1 M12V
2 GND
3 GND
4 GND
5 A12V
6 -12V
7 6V
8 -6V
REF NO.1000 SERIES
A
B
C
D
E
F
G
H
I
J
1
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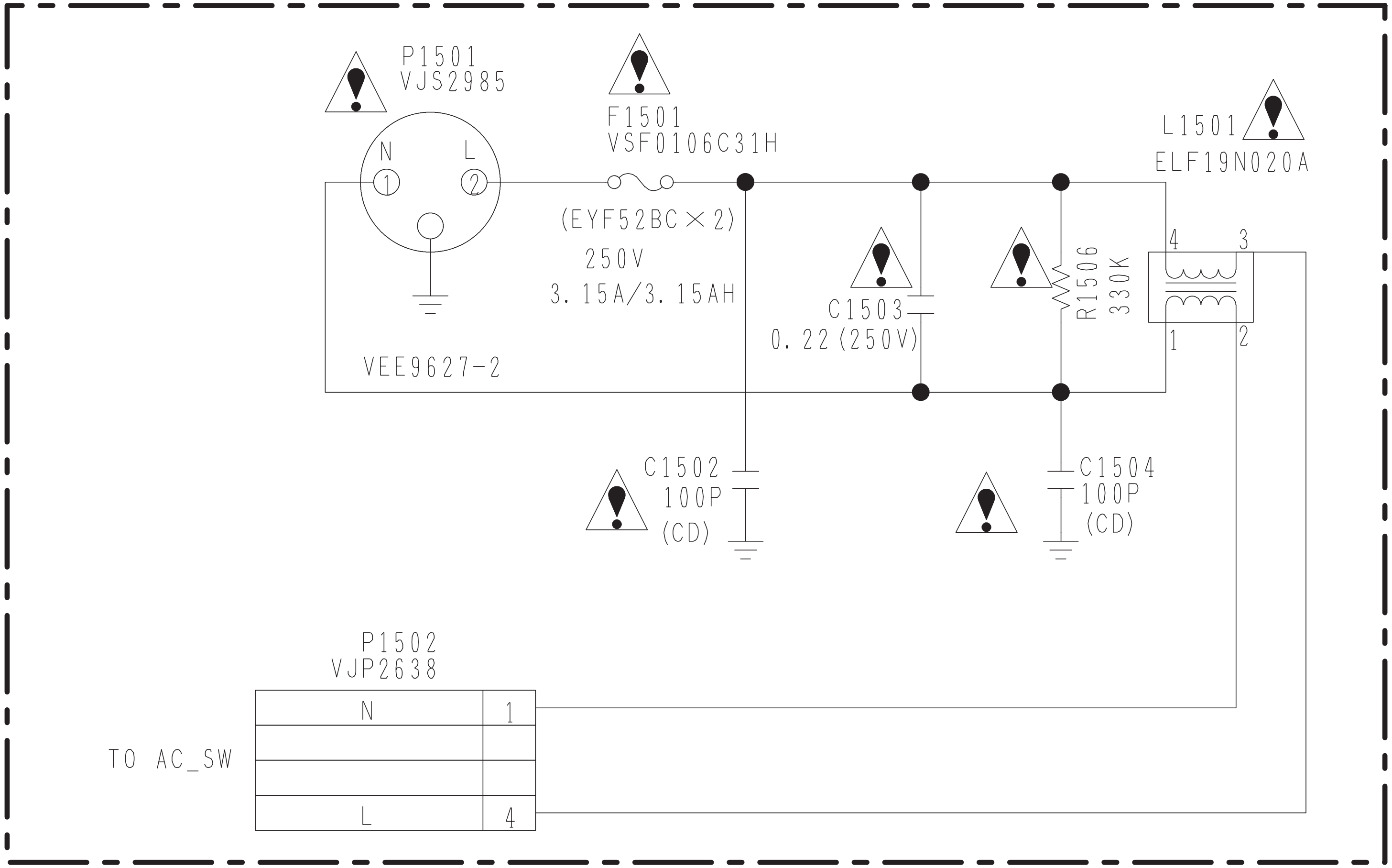
15

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE [ ] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	POWER1		02/02
CIRCUIT BOARD NO.		DRAWING NO.	
VEP81221A		KR1E85 (2/2)	
		SCM135	


P1501
VJS2985
N
L
①
②
F1501
VSF0106C31H
(EYF52BC×2)
250V
3.15A/3.15AH
VEE9627-2
C1503
0.22(250V)
R1506
330K
L1501
ELF19N020A
4
3
1
2
C1502
100P
(CD)
C1504
100P
(CD)
P1502
VJP2638
N
1
TO AC_SW
L
4

⚠ 警 告 ⚠ の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

内は充電部です。AC100Vが加わっていますので点検、修理のときは感電しないよう充分ご注意ください。

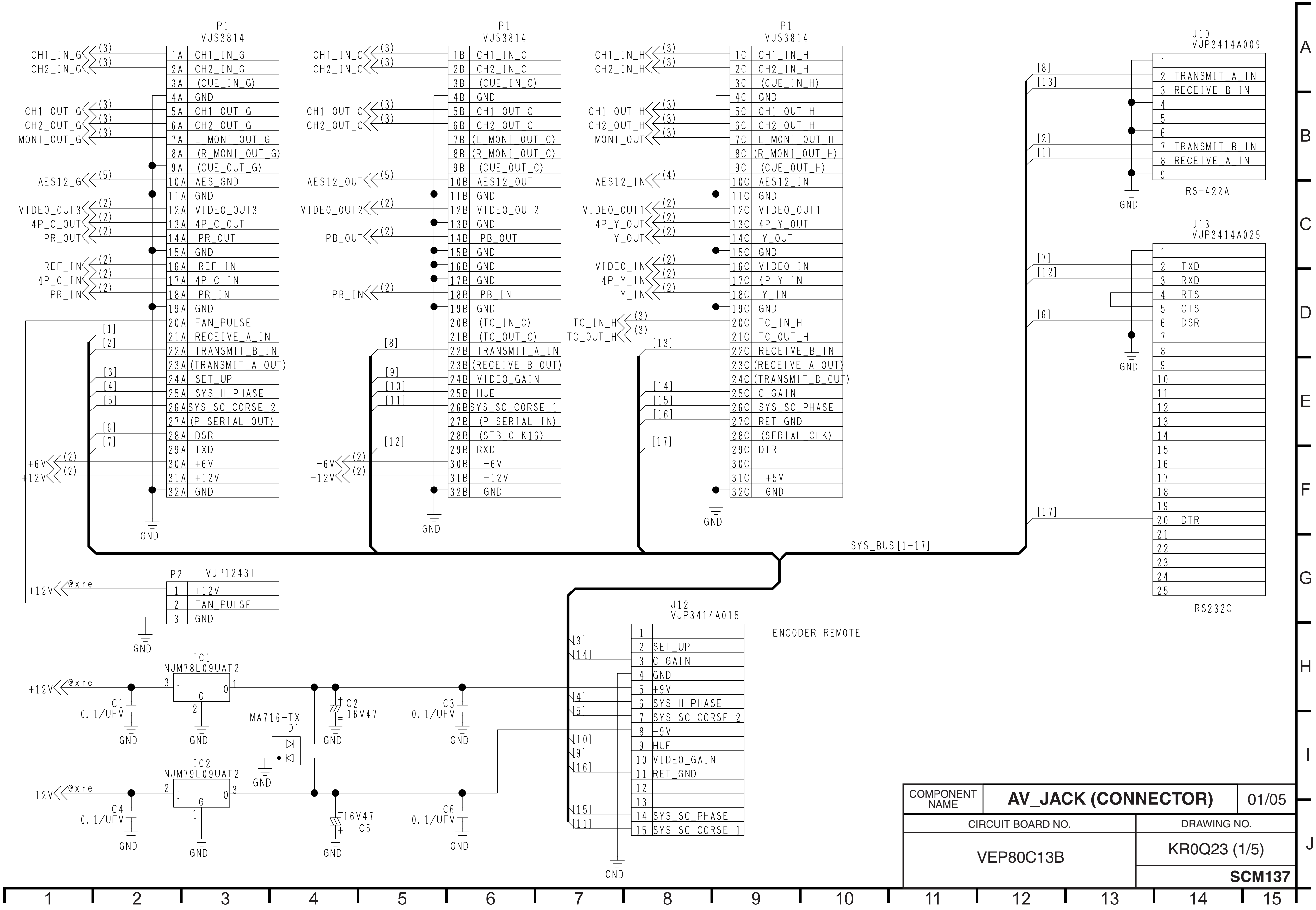
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

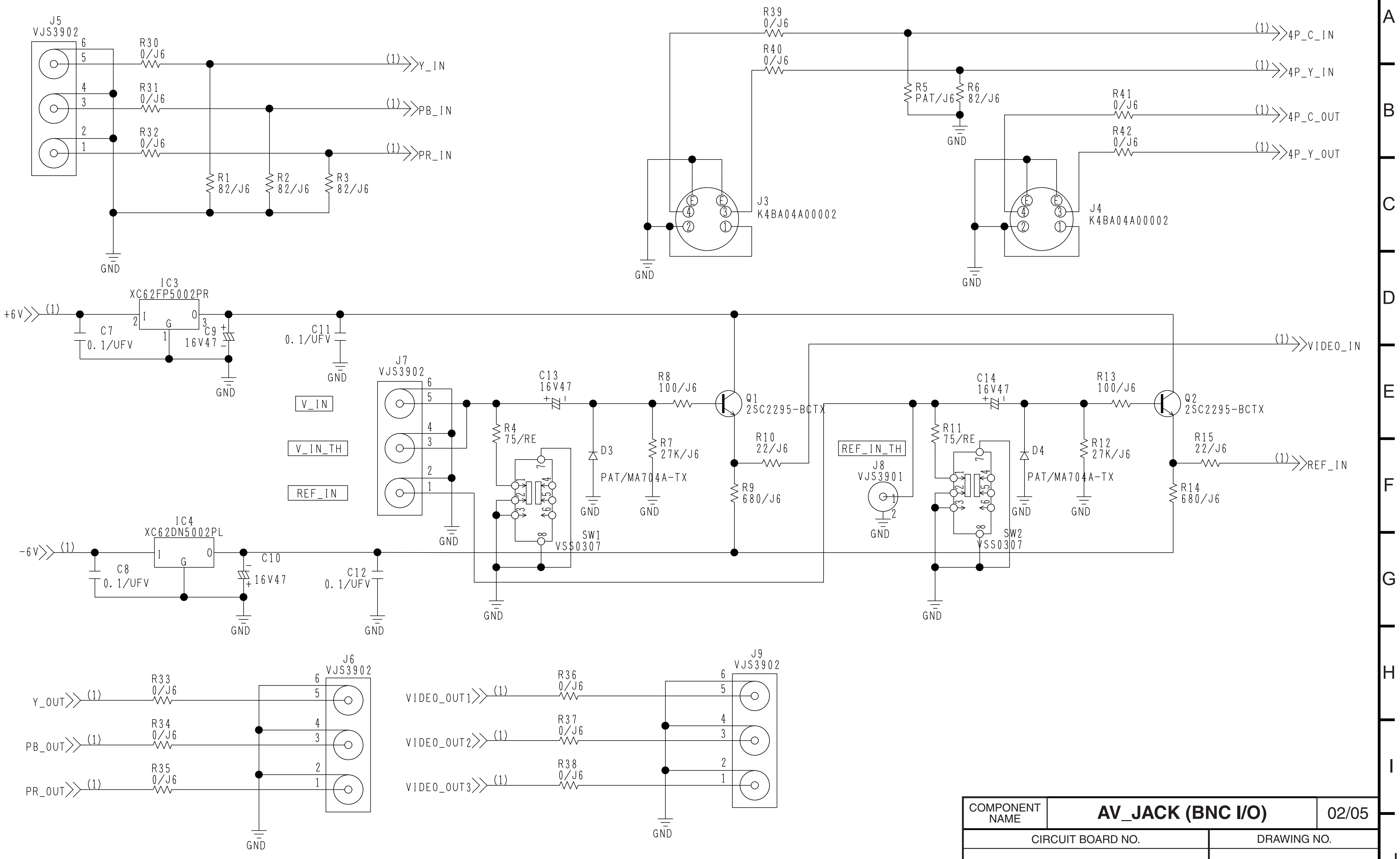
THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

REF. NO. 1500 SERIES

COMPONENT NAME	**POWER2**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81222A	KR1E86 (1/1)	
	SCM136	

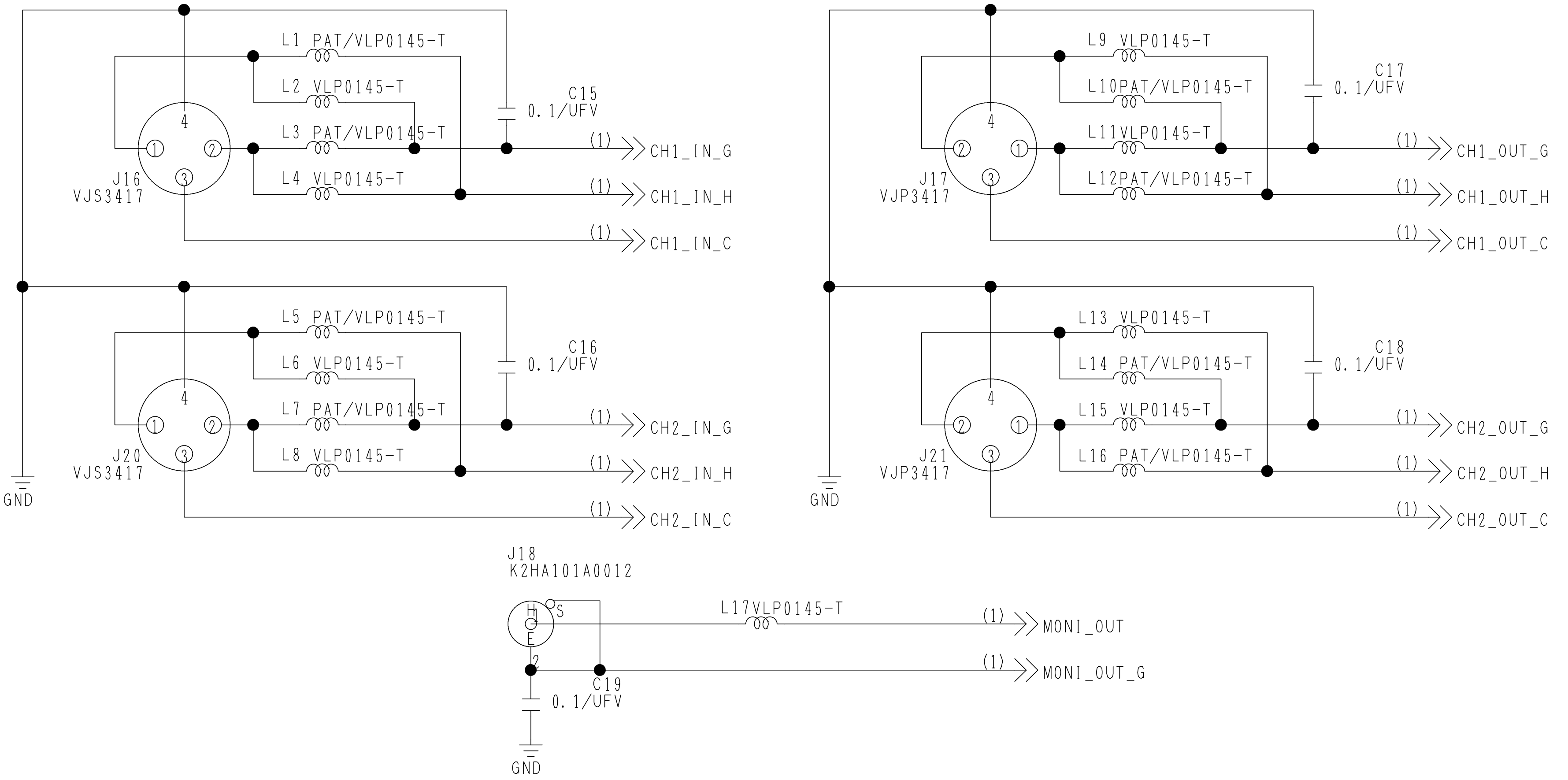

P1 VJS3814
1A CH1_IN_G
2A CH2_IN_G
3A (CUE_IN_G)
4A GND
5A CH1_OUT_G
6A CH2_OUT_G
7A L_MONI_OUT_G
8A (R_MONI_OUT_G)
9A (CUE_OUT_G)
10A AES_GND
11A GND
12A VIDEO_OUT3
13A 4P_C_OUT
14A PR_OUT
15A GND
16A REF_IN
17A 4P_C_IN
18A PR_IN
19A GND
20A FAN_PULSE
21A RECEIVE_A_IN
22A TRANSMIT_B_IN
23A (TRANSMIT_A_OUT)
24A SET_UP
25A SYS_H_PHASE
26A SYS_SC_CORSE_2
27A (P_SERIAL_OUT)
28A DSR
29A TXD
30A +6V
31A +12V
32A GND
P1 VJS3814
1B CH1_IN_C
2B CH2_IN_C
3B (CUE_IN_C)
4B GND
5B CH1_OUT_C
6B CH2_OUT_C
7B (L_MONI_OUT_C)
8B (R_MONI_OUT_C)
9B (CUE_OUT_C)
10B AES12_OUT
11B GND
12B VIDEO_OUT2
13B GND
14B PB_OUT
15B GND
16B GND
17B GND
18B PB_IN
19B GND
20B (TC_IN_C)
21B (TC_OUT_C)
22B TRANSMIT_A_IN
23B (RECEIVE_B_OUT)
24B VIDEO_GAIN
25B HUE
26B SYS_SC_CORSE_1
27B (P_SERIAL_IN)
28B (STB_CLK16)
29B RXD
30B -6V
31B -12V
32B GND
P1 VJS3814
1C CH1_IN_H
2C CH2_IN_H
3C (CUE_IN_H)
4C GND
5C CH1_OUT_H
6C CH2_OUT_H
7C L_MONI_OUT_H
8C (R_MONI_OUT_H)
9C (CUE_OUT_H)
10C AES12_IN
11C GND
12C VIDEO_OUT1
13C 4P_Y_OUT
14C Y_OUT
15C GND
16C VIDEO_IN
17C 4P_Y_IN
18C Y_IN
19C GND
20C TC_IN_H
21C TC_OUT_H
22C RECEIVE_B_IN
23C (RECEIVE_A_OUT)
24C (TRANSMIT_B_OUT)
25C C_GAIN
26C SYS_SC_PHASE
27C RET_GND
28C (SERIAL_CLK)
29C DTR
30C
31C +5V
32C GND
CH1_IN_G (3)
CH2_IN_G (3)
CH1_OUT_G (3)
CH2_OUT_G (3)
MONI_OUT_G (3)
AES12_G (5)
VIDEO_OUT3 (2)
4P_C_OUT (2)
PR_OUT (2)
REF_IN (2)
4P_C_IN (2)
PR_IN (2)
+6V (2)
+12V (2)
CH1_IN_C (3)
CH2_IN_C (3)
CH1_OUT_C (3)
CH2_OUT_C (3)
AES12_OUT (5)
VIDEO_OUT2 (2)
PB_OUT (2)
PB_IN (2)
-6V (2)
-12V (2)
CH1_IN_H (3)
CH2_IN_H (3)
CH1_OUT_H (3)
CH2_OUT_H (3)
MONI_OUT (3)
AES12_IN (4)
VIDEO_OUT1 (2)
4P_Y_OUT (2)
Y_OUT (2)
VIDEO_IN (2)
4P_Y_IN (2)
Y_IN (2)
TC_IN_H (3)
TC_OUT_H (3)
[1] [2] [3] [4] [5] [6] [7]
[8] [9] [10] [11] [12]
[13] [14] [15] [16] [17]
GND
SYS_BUS[1-17]
J10 VJP3414A009
1
2 TRANSMIT_A_IN
3 RECEIVE_B_IN
4
5
6
7 TRANSMIT_B_IN
8 RECEIVE_A_IN
9
RS-422A
J13 VJP3414A025
1
2 TXD
3 RXD
4 RTS
5 CTS
6 DSR
7
8
9
10
11
12
13
14
15
16
17
18
19
20 DTR
21
22
23
24
25
RS232C
P2 VJP1243T
1 +12V
2 FAN_PULSE
3 GND
+12V @xre
J12 VJP3414A015
1
2 SET_UP
3 C_GAIN
4 GND
5 +9V
6 SYS_H_PHASE
7 SYS_SC_CORSE_2
8 -9V
9 HUE
10 VIDEO_GAIN
11 RET_GND
12
13
14 SYS_SC_PHASE
15 SYS_SC_CORSE_1
ENCODER REMOTE
IC1 NJM78L09UAT2
I G O
3 2 1
+12V @xre
C1 0.1/UFV
C2 16V47
C3 0.1/UFV
MA716-TX D1
IC2 NJM79L09UAT2
2 1 3
-12V @xre
C4 0.1/UFV
16V47 C5
C6 0.1/UFV
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	**AV_JACK (CONNECTOR)**	01/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C13B	KR0Q23 (1/5)	
	SCM137	


J5
VJS3902
R30 0/J6
R31 0/J6
R32 0/J6
(1) Y_IN
(1) PB_IN
(1) PR_IN
R1 82/J6
R2 82/J6
R3 82/J6
GND
R39 0/J6
R40 0/J6
(1) 4P_C_IN
(1) 4P_Y_IN
R5 PAT/J6
R6 82/J6
R41 0/J6
R42 0/J6
(1) 4P_C_OUT
(1) 4P_Y_OUT
J3 K4BA04A00002
J4 K4BA04A00002
+6V (1)
IC3 XC62FP5002PR
C7 0.1/UFV
C9 16V47
C11 0.1/UFV
(1) VIDEO_IN
J7 VJS3902
V_IN
V_IN_TH
REF_IN
C13 16V47
R8 100/J6
Q1 2SC2295-BCTX
R4 75/RE
D3 PAT/MA704A-TX
R7 27K/J6
R10 22/J6
R9 680/J6
SW1 VSS0307
C14 16V47
R13 100/J6
Q2 2SC2295-BCTX
REF_IN_TH
J8 VJS3901
R11 75/RE
D4 PAT/MA704A-TX
R12 27K/J6
R15 22/J6
(1) REF_IN
R14 680/J6
SW2 VSS0307
-6V (1)
IC4 XC62DN5002PL
C8 0.1/UFV
C10 16V47
C12 0.1/UFV
J6 VJS3902
Y_OUT (1)
PB_OUT (1)
PR_OUT (1)
R33 0/J6
R34 0/J6
R35 0/J6
J9 VJS3902
VIDEO_OUT1 (1)
VIDEO_OUT2 (1)
VIDEO_OUT3 (1)
R36 0/J6
R37 0/J6
R38 0/J6

COMPONENT NAME	AV_JACK (BNC I/O)	02/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C13B	KR0Q23 (2/5)	
	SCM138	

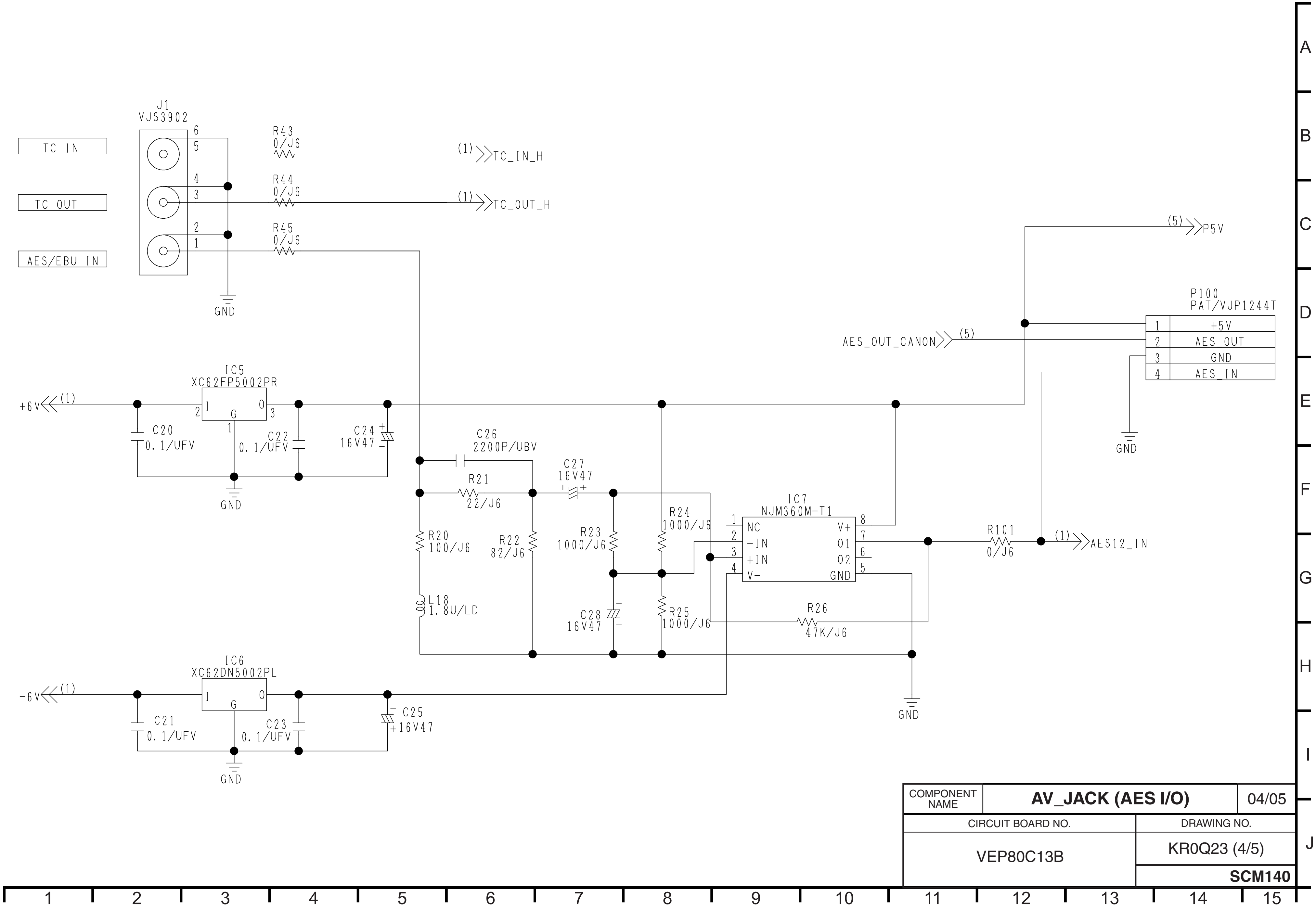
For OVER SEAS



L1 PAT/VLP0145-T
L2 VLP0145-T
L3 PAT/VLP0145-T
L4 VLP0145-T
C15
0.1/UFV
J16
VJS3417
(1) CH1_IN_G
(1) CH1_IN_H
(1) CH1_IN_C
L5 PAT/VLP0145-T
L6 VLP0145-T
L7 PAT/VLP0145-T
L8 VLP0145-T
C16
0.1/UFV
J20
VJS3417
(1) CH2_IN_G
(1) CH2_IN_H
(1) CH2_IN_C
GND
L9 VLP0145-T
L10PAT/VLP0145-T
L11VLP0145-T
L12PAT/VLP0145-T
C17
0.1/UFV
J17
VJP3417
(1) CH1_OUT_G
(1) CH1_OUT_H
(1) CH1_OUT_C
L13 VLP0145-T
L14 PAT/VLP0145-T
L15 VLP0145-T
L16 PAT/VLP0145-T
C18
0.1/UFV
J21
VJP3417
(1) CH2_OUT_G
(1) CH2_OUT_H
(1) CH2_OUT_C
GND
J18
K2HA101A0012
H
S
E
2
L17VLP0145-T
(1) MONI_OUT
(1) MONI_OUT_G
C19
0.1/UFV
GND

		J16	J20	L1	L2	L3	L4	L5	L6	L7	L8
INPUT	For OVER SEAS	VJS3417	VJS3417	–	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145
	For JAPAN	VJP3417	VJP3417	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145	–
OUTPUT		J17	J21	L9	L10	L11	L12	L13	L14	L15	L16
	For OVER SEAS	VJP3417	VJP3417	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145	–
	For JAPAN	VJS3417	VJS3417	–	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145

COMPONENT NAME	AV_JACK (AUDIO I/O)	03/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C13B	KR0Q23 (3/5)	
	SCM139	


TC IN
TC OUT
AES/EBU IN
J1
VJS3902
6
5
4
3
2
1
R43
0/J6
R44
0/J6
R45
0/J6
(1)
TC_IN_H
(1)
TC_OUT_H
GND
(5)
P5V
P100
PAT/VJP1244T
1 +5V
2 AES_OUT
3 GND
4 AES_IN
AES_OUT_CANON
(5)
GND
IC5
XC62FP5002PR
+6V
(1)
I
G
O
2
1
3
C20
0.1/UFV
C22
0.1/UFV
C24
16V47
GND
C26
2200P/UBV
C27
16V47
R21
22/J6
IC7
NJM360M-T1
1 NC
2 -IN
3 +IN
4 V-
8 V+
7 O1
6 O2
5 GND
R24
1000/J6
R20
100/J6
R22
82/J6
R23
1000/J6
R101
0/J6
(1)
AES12_IN
L18
1.8U/LD
C28
16V47
R25
1000/J6
R26
47K/J6
GND
IC6
XC62DN5002PL
-6V
(1)
I
G
O
C21
0.1/UFV
C23
0.1/UFV
C25
16V47
GND
A
B
C
D
E
F
G
H
I
J
1
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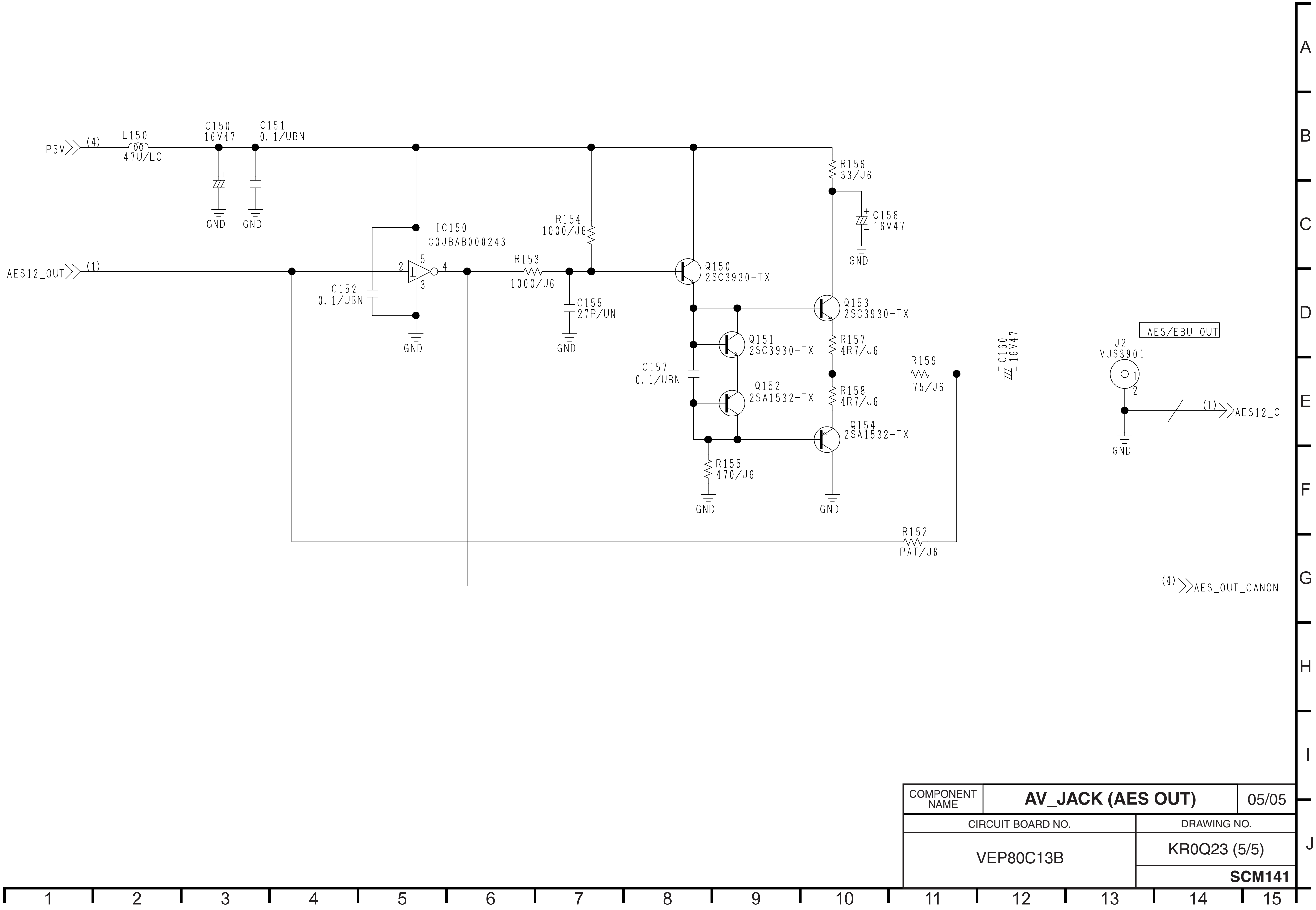
COMPONENT NAME	**AV_JACK (AES I/O)**	04/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C13B	KR0Q23 (4/5)	
	SCM140	


P5V
(4)
L150
47U/LC
C150
16V47
C151
0.1/UBN
GND
GND
IC150
C0JBAB000243
AES12_OUT
(1)
2
5
4
3
C152
0.1/UBN
GND
R153
1000/J6
R154
1000/J6
C155
27P/UN
GND
Q150
2SC3930-TX
R156
33/J6
C158
16V47
GND
Q153
2SC3930-TX
Q151
2SC3930-TX
C157
0.1/UBN
Q152
2SA1532-TX
R157
4R7/J6
R158
4R7/J6
Q154
2SA1532-TX
R155
470/J6
GND
GND
R159
75/J6
C160
16V47
AES/EBU OUT
J2
VJS3901
1
2
(1)
AES12_G
GND
R152
PAT/J6
(4)
AES_OUT_CANON
A
B
C
D
E
F
G
H
I
J
1
2
3
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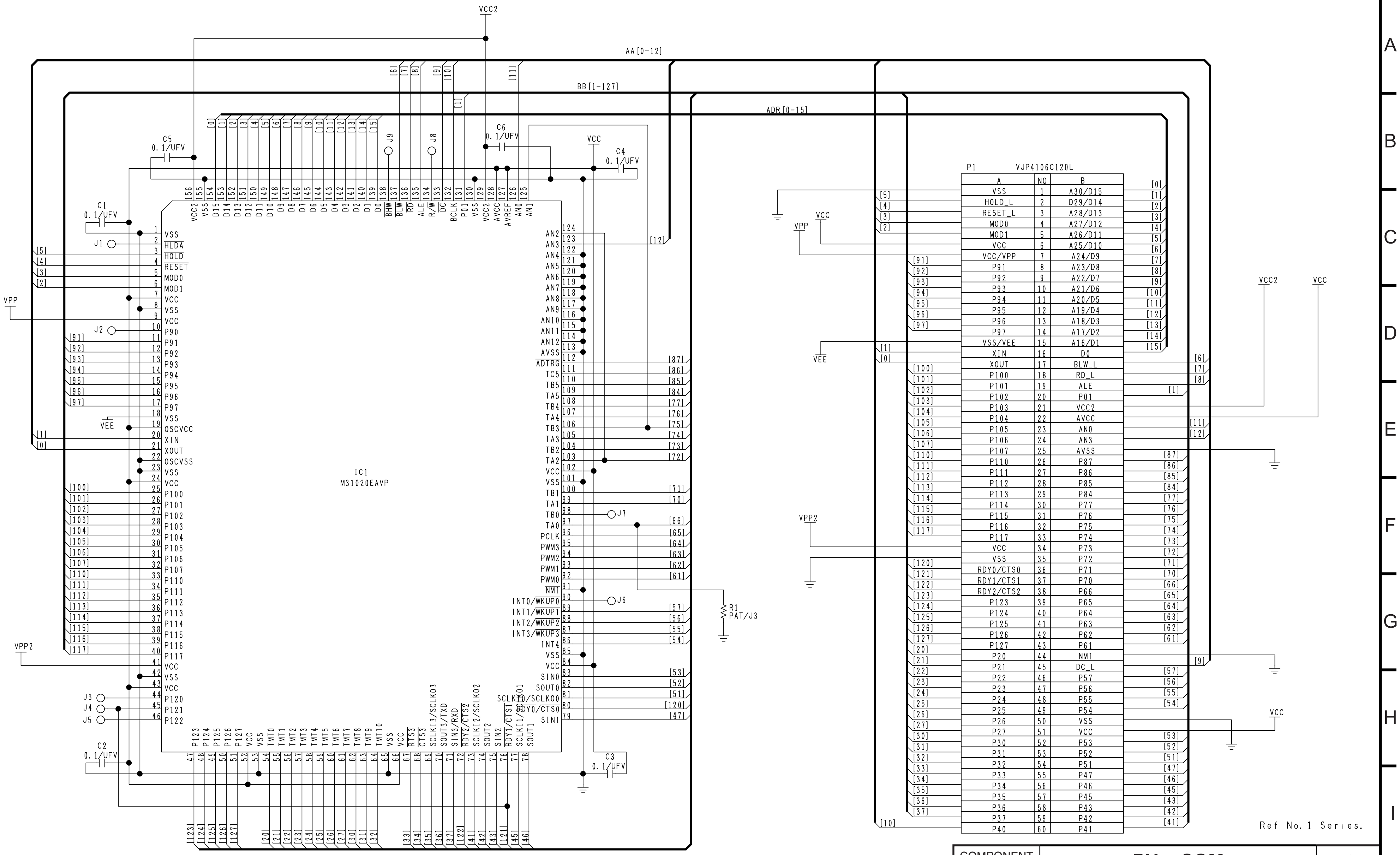
COMPONENT NAME	**AV_JACK (AES OUT)**		05/05
CIRCUIT BOARD NO.		DRAWING NO.	
VEP80C13B		KR0Q23 (5/5)	
		SCM141	


VCC2
AA[0-12]
BB[1-127]
ADR[0-15]
C5 0.1/UFV
C6 0.1/UFV
C4 0.1/UFV
C1 0.1/UFV
C2 0.1/UFV
C3 0.1/UFV
VCC
VPP
VPP2
VEE
J1
J2
J3
J4
J5
J6
J7
J8
J9
R1 PAT/J3
IC1
M31020EAVP
1 VSS
2 HLDA
3 HOLD
4 RESET
5 MOD0
6 MOD1
7 VCC
8 VSS
9 VCC
10 P90
11 P91
12 P92
13 P93
14 P94
15 P95
16 P96
17 P97
18 VSS
19 OSCVCC
20 XIN
21 XOUT
22 OSCVSS
23 VSS
24 VCC
25 P100
26 P101
27 P102
28 P103
29 P104
30 P105
31 P106
32 P107
33 P110
34 P111
35 P112
36 P113
37 P114
38 P115
39 P116
40 P117
41 VCC
42 VSS
43 VCC
44 P120
45 P121
46 P122
47 P123
48 P124
49 P125
50 P126
51 P127
52 VCC
53 VSS
54 TMT0
55 TMT1
56 TMT2
57 TMT3
58 TMT4
59 TMT5
60 TMT6
61 TMT7
62 TMT8
63 TMT9
64 TMT10
65 VSS
66 VCC
67 RTS3
68 CTS3
69 SCLKI3/SCLKO3
70 SOUT3/TXD
71 SIN3/RXD
72 RDY2/CTS2
73 SCLKI2/SCLKO2
74 SOUT2
75 SIN2
76 RDY1/CTS1
77 SCLKI1/SCLKO1
78 SOUT1
79 SIN1
80 RDY0/CTS0
81 SCLKI0/SCLKO0
82 SOUT0
83 SIN0
84 VCC
85 VSS
86 INT4
87 INT3/WKUP3
88 INT2/WKUP2
89 INT1/WKUP1
90 INT0/WKUP0
91 NMI
92 PWM0
93 PWM1
94 PWM2
95 PWM3
96 PCLK
97 TA0
98 TB0
99 TA1
100 TB1
101 VSS
102 VCC
103 TA2
104 TB2
105 TA3
106 TB3
107 TA4
108 TB4
109 TA5
110 TB5
111 TC5
112 ADTRG
113 AVSS
114 AN12
115 AN11
116 AN10
117 AN9
118 AN8
119 AN7
120 AN6
121 AN5
122 AN4
123 AN3
124 AN2
125 AN1
126 AN0
127 AVREF
128 AVCC
129 VCC2
130 VSS
131 P01
132 BCLK
133 DC
134 R/W
135 ALE
136 RD
137 BLW
138 BHW
139 D0
140 D1
141 D2
142 D3
143 D4
144 D5
145 D6
146 D7
147 D8
148 D9
149 D10
150 D11
151 D12
152 D13
153 D14
154 D15
155 VSS
156 VCC2
P1 VJP4106C120L
A NO B
VSS 1 A30/D15
HOLD_L 2 D29/D14
RESET_L 3 A28/D13
MOD0 4 A27/D12
MOD1 5 A26/D11
VCC 6 A25/D10
VCC/VPP 7 A24/D9
P91 8 A23/D8
P92 9 A22/D7
P93 10 A21/D6
P94 11 A20/D5
P95 12 A19/D4
P96 13 A18/D3
P97 14 A17/D2
VSS/VEE 15 A16/D1
XIN 16 D0
XOUT 17 BLW_L
P100 18 RD_L
P101 19 ALE
P102 20 P01
P103 21 VCC2
P104 22 AVCC
P105 23 AN0
P106 24 AN3
P107 25 AVSS
P110 26 P87
P111 27 P86
P112 28 P85
P113 29 P84
P114 30 P77
P115 31 P76
P116 32 P75
P117 33 P74
VCC 34 P73
VSS 35 P72
RDY0/CTS0 36 P71
RDY1/CTS1 37 P70
RDY2/CTS2 38 P66
P123 39 P65
P124 40 P64
P125 41 P63
P126 42 P62
P127 43 P61
P20 44 NMI
P21 45 DC_L
P22 46 P57
P23 47 P56
P24 48 P55
P25 49 P54
P26 50 VSS
P27 51 VCC
P30 52 P53
P31 53 P52
P32 54 P51
P33 55 P47
P34 56 P46
P35 57 P45
P36 58 P43
P37 59 P42
P40 60 P41
Ref No.1 Series.
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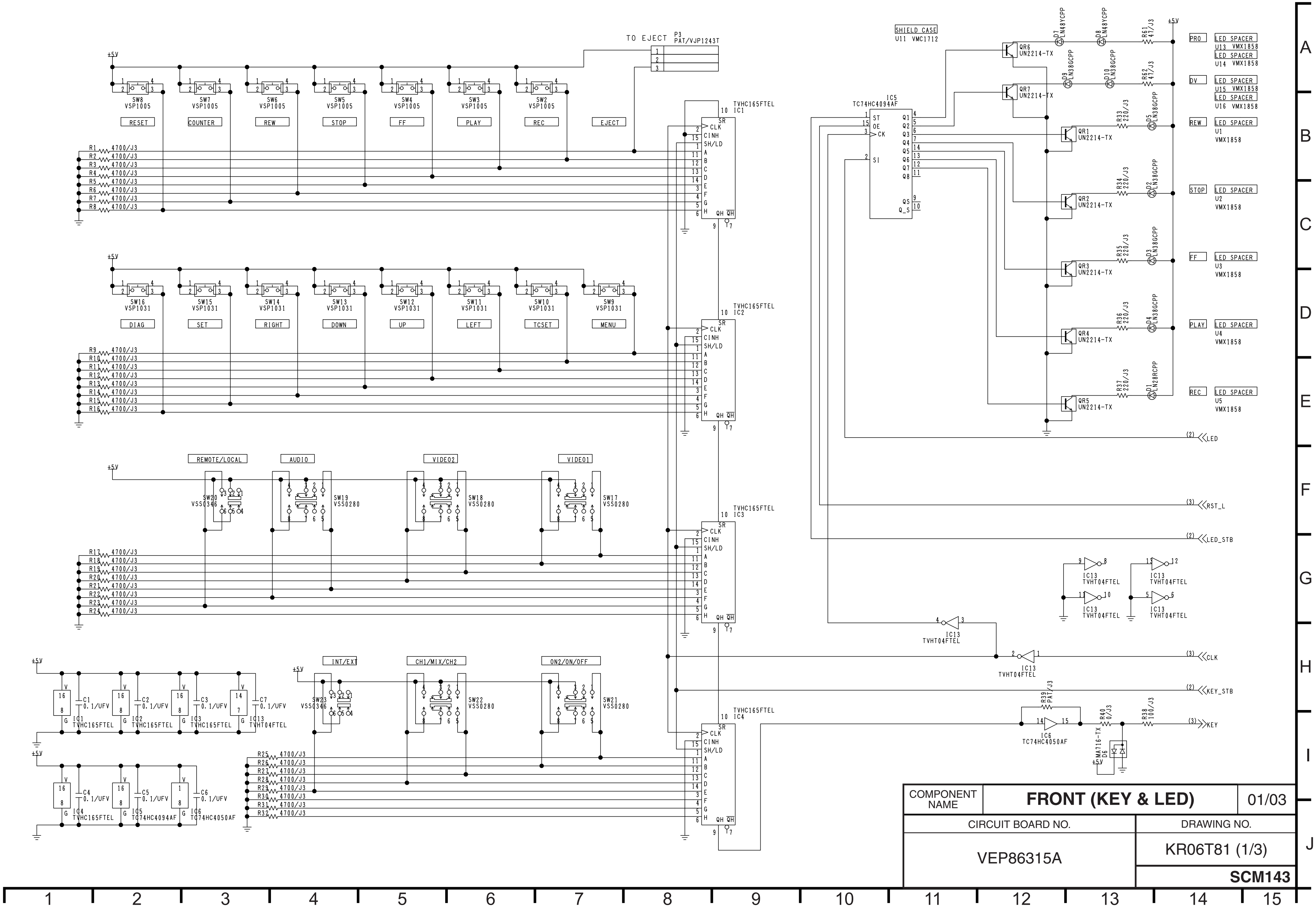
COMPONENT NAME	DV u COM	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83560A	KR30103 (1/1)	
	SCM142	


TO EJECT
P3
PAT/VJP1243T
+5V
SW8 VSP1005
SW7 VSP1005
SW6 VSP1005
SW5 VSP1005
SW4 VSP1005
SW3 VSP1005
SW2 VSP1005
RESET
COUNTER
REW
STOP
FF
PLAY
REC
EJECT
R1 4700/J3
R2 4700/J3
R3 4700/J3
R4 4700/J3
R5 4700/J3
R6 4700/J3
R7 4700/J3
R8 4700/J3
TVHC165FTEL
IC1
SR
CLK
CINH
SH/LD
A
B
C
D
E
F
G
H
QH
SW16 VSP1031
SW15 VSP1031
SW14 VSP1031
SW13 VSP1031
SW12 VSP1031
SW11 VSP1031
SW10 VSP1031
SW9 VSP1031
DIAG
SET
RIGHT
DOWN
UP
LEFT
TCSET
MENU
R9 4700/J3
R10 4700/J3
R11 4700/J3
R12 4700/J3
R13 4700/J3
R14 4700/J3
R15 4700/J3
R16 4700/J3
TVHC165FTEL
IC2
REMOTE/LOCAL
AUDIO
VIDEO2
VIDEO1
SW20 VSS0346
SW19 VSS0280
SW18 VSS0280
SW17 VSS0280
R17 4700/J3
R18 4700/J3
R19 4700/J3
R20 4700/J3
R21 4700/J3
R22 4700/J3
R23 4700/J3
R24 4700/J3
TVHC165FTEL
IC3
INT/EXT
CH1/MIX/CH2
ON2/ON/OFF
SW23 VSS0346
SW22 VSS0280
SW21 VSS0280
R25 4700/J3
R26 4700/J3
R27 4700/J3
R28 4700/J3
R29 4700/J3
R30 4700/J3
R31 4700/J3
R32 4700/J3
TVHC165FTEL
IC4
C1 0.1/UFV
C2 0.1/UFV
C3 0.1/UFV
C7 0.1/UFV
IC1 TVHC165FTEL
IC2 TVHC165FTEL
IC3 TVHC165FTEL
IC13 TVHT04FTEL
C4 0.1/UFV
C5 0.1/UFV
C6 0.1/UFV
IC4 TVHC165FTEL
IC5 TC74HC4094AF
IC6 TC74HC4050AF
SHIELD CASE
U11 VMC1712
IC5
TC74HC4094AF
ST
OE
CK
SI
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
QS
Q_S
QR6 UN2214-TX
QR7 UN2214-TX
D7 LN48YCPP
D8 LN48YCPP
R61 47/J3
D9 LN38GCPP
D10 LN38GCPP
R62 47/J3
QR1 UN2214-TX
R33 220/J3
D5 LN38GCPP
QR2 UN2214-TX
R34 220/J3
D2 LN38GCPP
QR3 UN2214-TX
R35 220/J3
D3 LN38GCPP
QR4 UN2214-TX
R36 220/J3
D4 LN38GCPP
QR5 UN2214-TX
R37 220/J3
D1 LN28RCPP
PRO
DV
REW
STOP
FF
PLAY
REC
LED SPACER U13 VMX1858
LED SPACER U14 VMX1858
LED SPACER U15 VMX1858
LED SPACER U16 VMX1858
LED SPACER U1 VMX1858
LED SPACER U2 VMX1858
LED SPACER U3 VMX1858
LED SPACER U4 VMX1858
LED SPACER U5 VMX1858
(2) LED
(3) RST_L
(2) LED_STB
IC13 TVHT04FTEL
(3) CLK
(2) KEY_STB
R39 PAT/J3
IC6 TC74HC4050AF
R40 0/J3
R38 100/J3
(3) KEY
MA716-TX
D6
A
B
C
D
E
F
G
H
I
J
1
2
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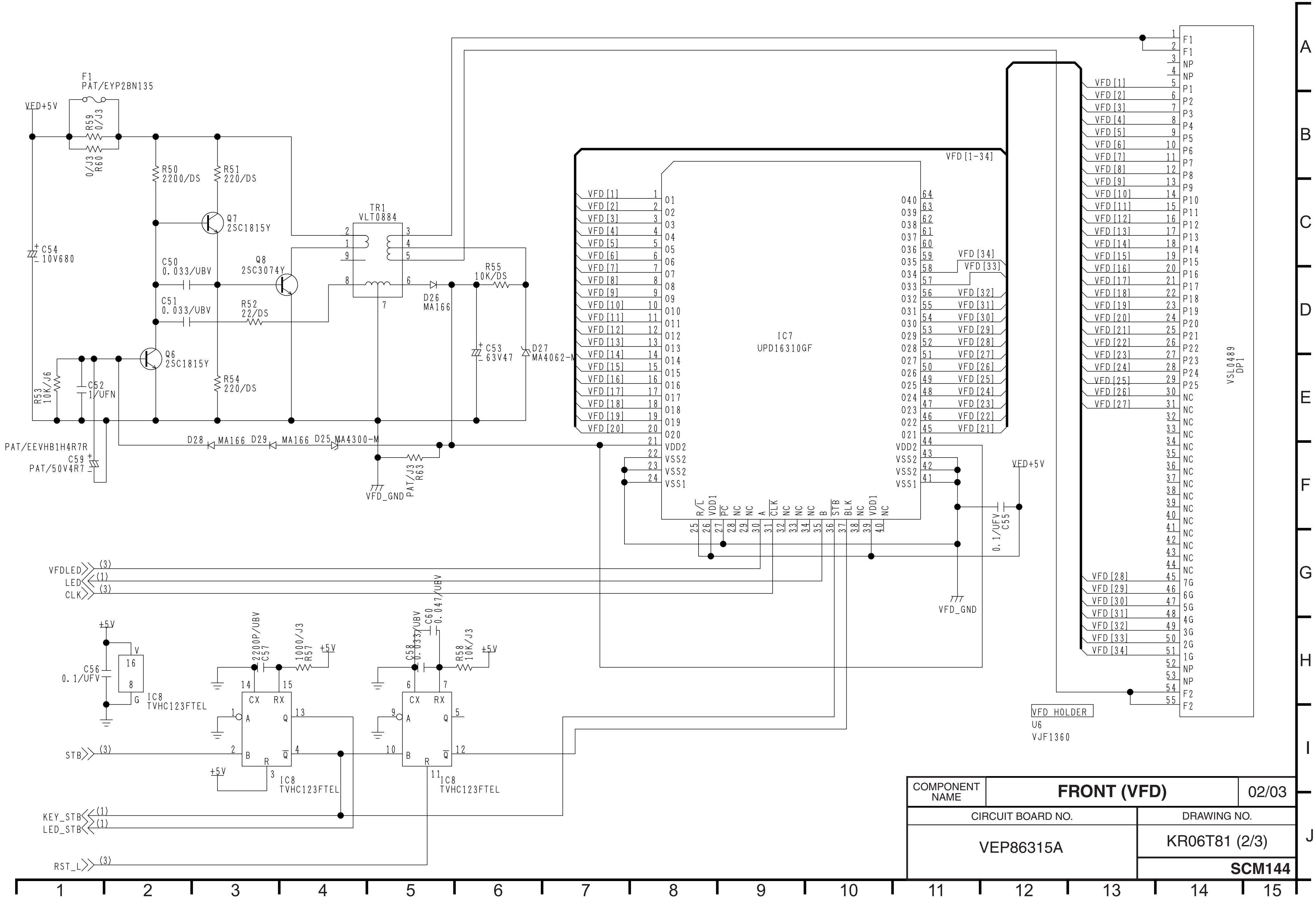
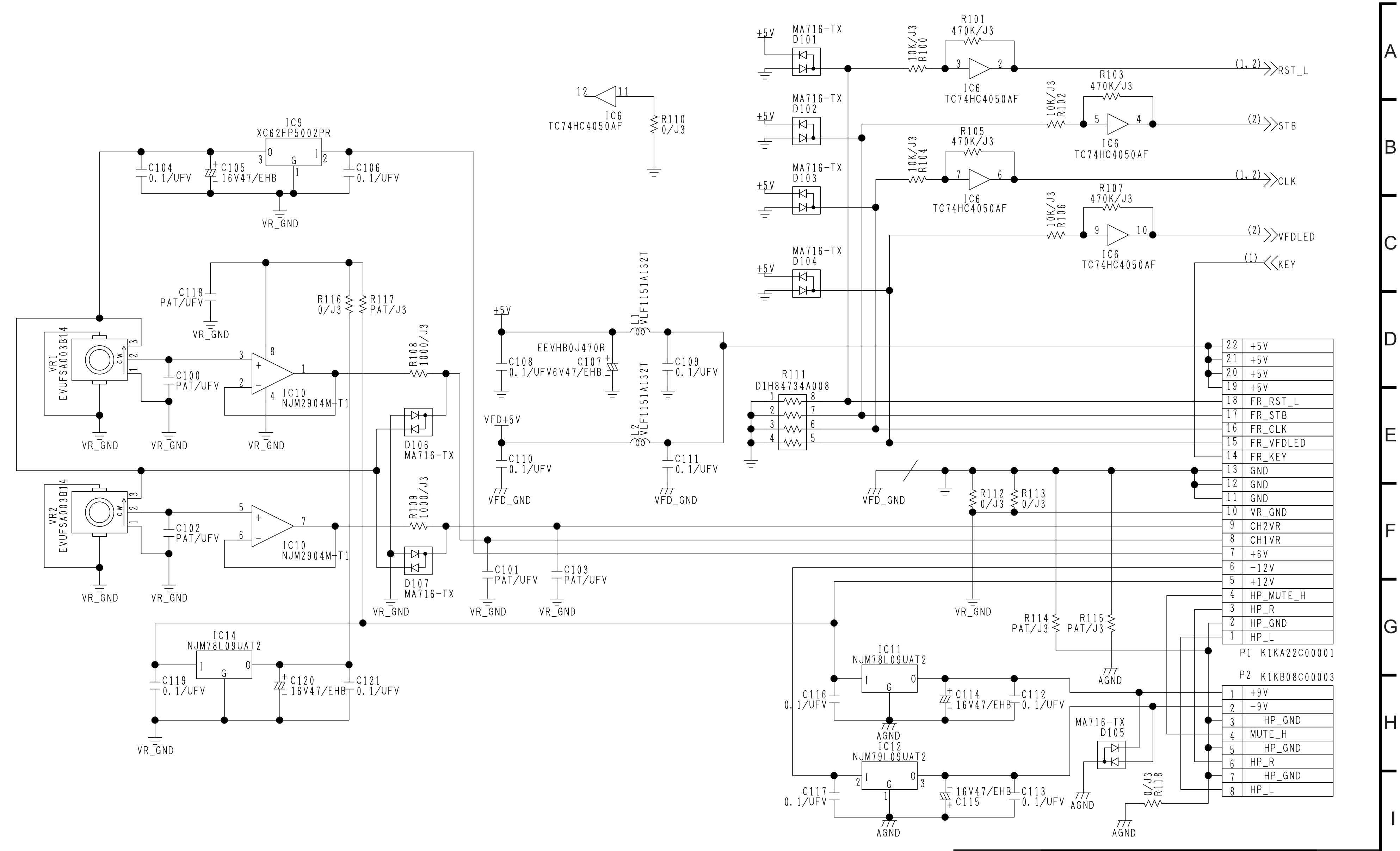
COMPONENT NAME	FRONT (KEY & LED)	01/03

CIRCUIT BOARD NO.	DRAWING NO.
VEP86315A	KR06T81 (1/3)
	SCM143


F1
PAT/EYP2BN135
VFD+5V
R59 0/J3
R60 0/J3
R50 2200/DS
R51 220/DS
Q7 2SC1815Y
Q8 2SC3074Y
Q6 2SC1815Y
C54 10V680
C50 0.033/UBV
C51 0.033/UBV
R52 22/DS
R53 10K/J6
C52 1/UFN
R54 220/DS
TR1 VLT0884
R55 10K/DS
D26 MA166
C53 63V47
D27 MA4062-M
D28 MA166
D29 MA166
D25 MA4300-M
PAT/EEVHB1H4R7R
C59
PAT/50V4R7
R63 PAT/J3
VFD_GND
IC7
UPD16310GF
VFD[1-34]
VDD2
VSS2
VSS1
R/L
VDD1
PC
NC
A
CLK
B
STB
BLK
C55 0.1/UFV
VFD+5V
VFD_GND
VFDLED (3)
LED (1)
CLK (3)
+5V
C56 0.1/UFV
IC8 TVHC123FTEL
C57 2200P/UBV
R57 1000/J3
C58 0.033/UBV
C60 0.047/UBV
R58 10K/J3
CX
RX
STB (3)
KEY_STB (1)
LED_STB (1)
RST_L (3)
VSL0489
DP1
F1
F2
NP
P1 … P25
7G 6G 5G 4G 3G 2G 1G
VFD HOLDER
U6
VJF1360
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	FRONT (VFD)	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86315A	KR06T81 (2/3)	
	SCM144	


+5V
MA716-TX
D101
10K/J3
R100
R101
470K/J3
IC6
TC74HC4050AF
(1, 2)
RST_L
D102
R102
R103
(2)
STB
D103
R104
R105
CLK
D104
R106
R107
VFDLED
(1)
KEY
IC6
TC74HC4050AF
R110
0/J3
IC9
XC62FP5002PR
C104
0.1/UFV
C105
16V47/EHB
C106
0.1/UFV
VR_GND
C118
PAT/UFV
R116
0/J3
R117
PAT/J3
R108
1000/J3
VR1
EVUFSA003B14
CW
C100
PAT/UFV
IC10
NJM2904M-T1
D106
MA716-TX
VR2
EVUFSA003B14
C102
PAT/UFV
R109
1000/J3
D107
MA716-TX
C101
PAT/UFV
C103
PAT/UFV
IC14
NJM78L09UAT2
C119
0.1/UFV
C120
16V47/EHB
C121
0.1/UFV
+5V
L1
VLF1151A132T
EEVHB0J470R
C107
6V47/EHB
C108
0.1/UFV
C109
0.1/UFV
VFD+5V
L2
VLF1151A132T
C110
0.1/UFV
C111
0.1/UFV
VFD_GND
R111
D1H84734A008
R112
0/J3
R113
0/J3
R114
PAT/J3
R115
PAT/J3
AGND
22 +5V
21 +5V
20 +5V
19 +5V
18 FR_RST_L
17 FR_STB
16 FR_CLK
15 FR_VFDLED
14 FR_KEY
13 GND
12 GND
11 GND
10 VR_GND
9 CH2VR
8 CH1VR
7 +6V
6 -12V
5 +12V
4 HP_MUTE_H
3 HP_R
2 HP_GND
1 HP_L
P1 K1KA22C00001
P2 K1KB08C00003
1 +9V
2 -9V
3 HP_GND
4 MUTE_H
5 HP_GND
6 HP_R
7 HP_GND
8 HP_L
IC11
NJM78L09UAT2
C116
0.1/UFV
C114
16V47/EHB
C112
0.1/UFV
IC12
NJM79L09UAT2
C117
0.1/UFV
C115
16V47/EHB
C113
0.1/UFV
MA716-TX
D105
R118
0/J3
A
B
C
D
E
F
G
H
I
J
1
2
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4
5
6
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8
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10
11
12
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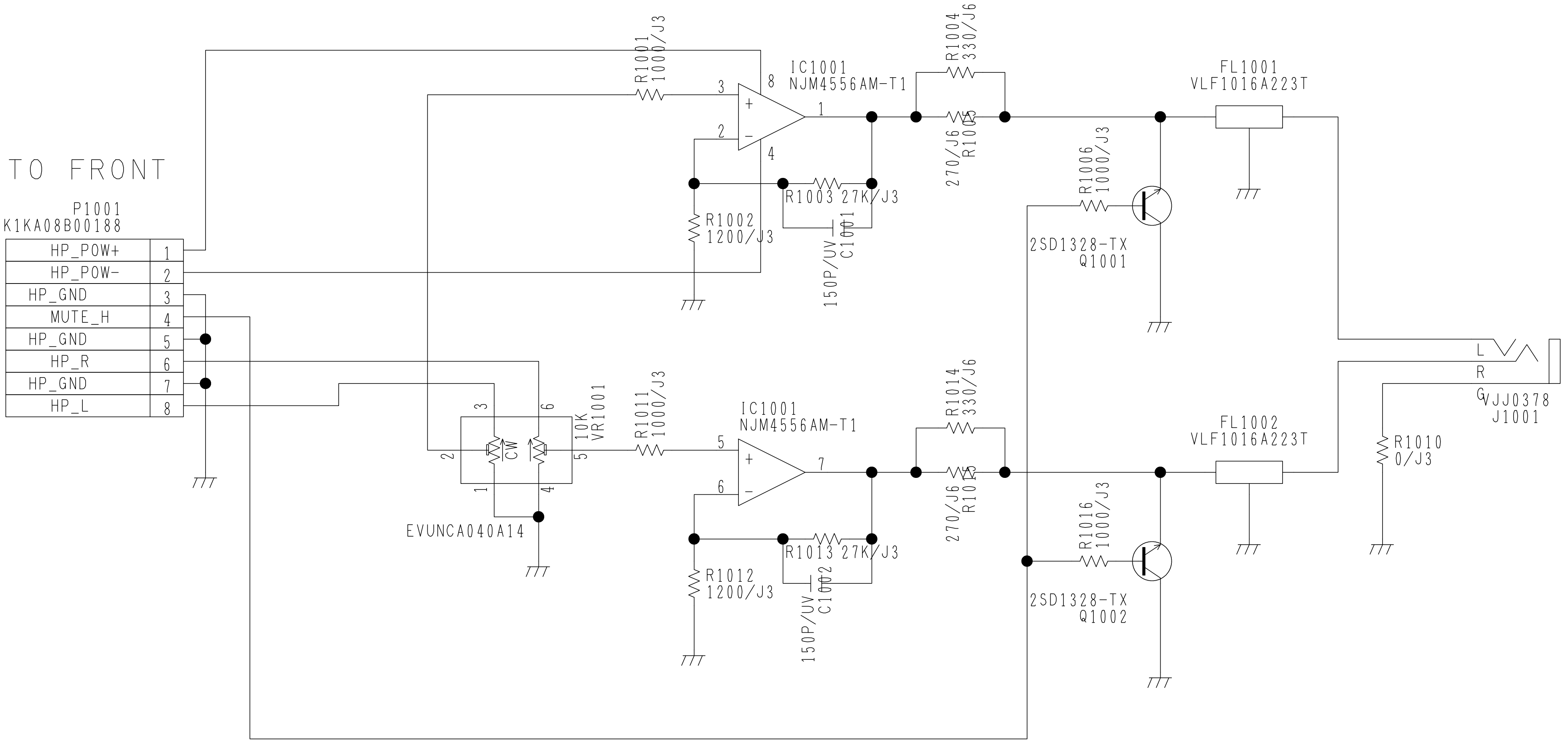
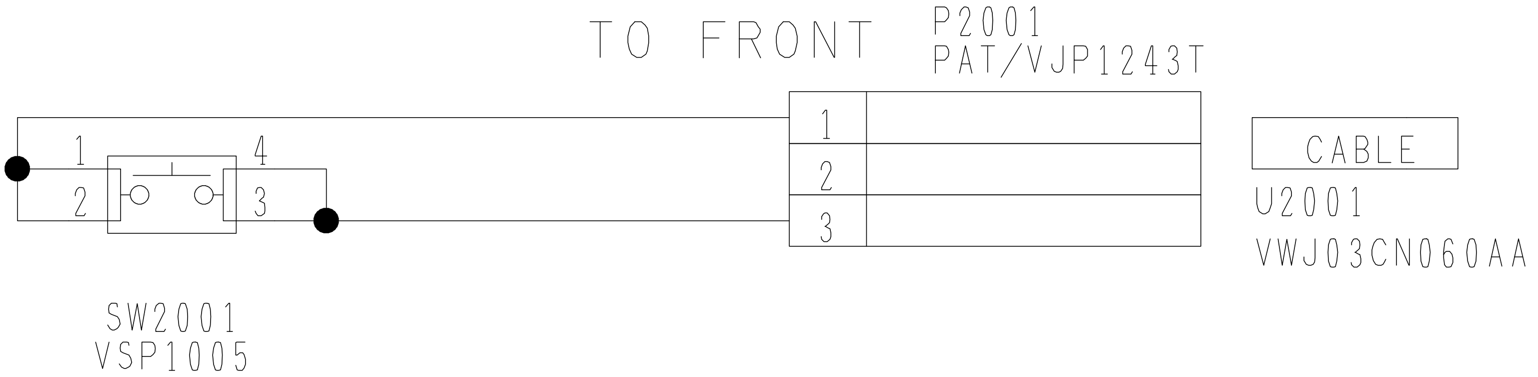
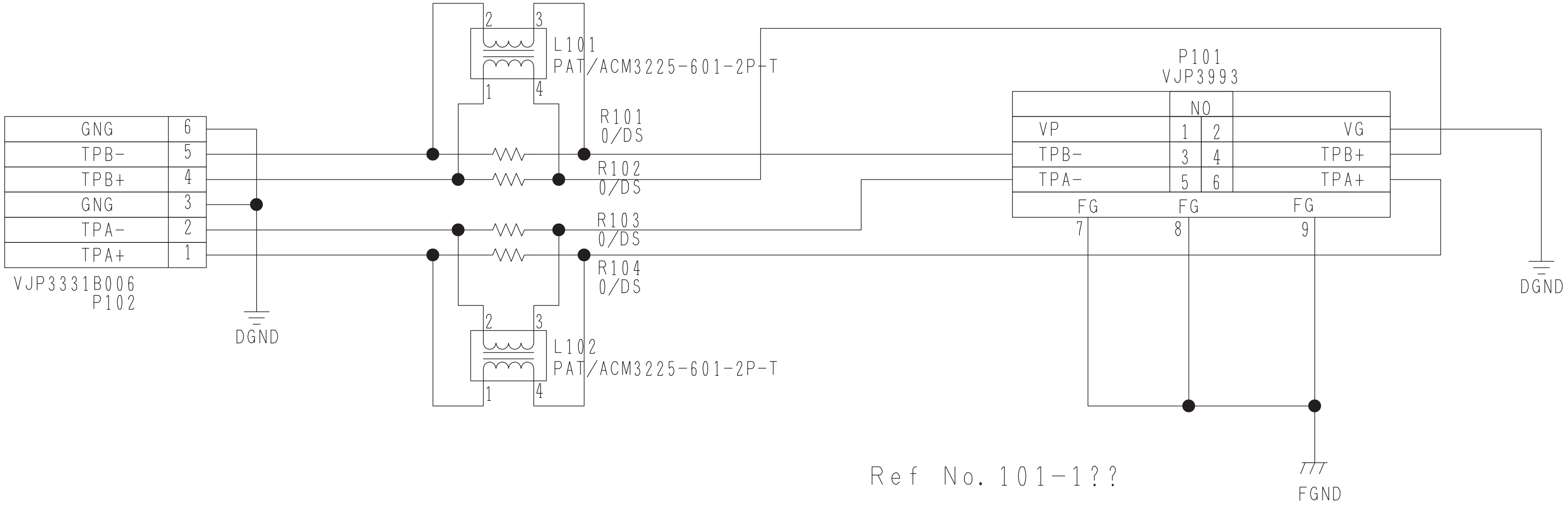
COMPONENT NAME	**FRONT (VR, CONECTOR)**	03/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86315A	KR06T81 (3/3)	
	SCM145	


TO FRONT
P1001
K1KA08B00188
HP_POW+ 1
HP_POW- 2
HP_GND 3
MUTE_H 4
HP_GND 5
HP_R 6
HP_GND 7
HP_L 8
R1001 1000/J3
IC1001 NJM4556AM-T1
R1004 330/J6
R1005 270/J6
FL1001 VLF1016A223T
R1003 27K/J3
R1002 1200/J3
C1001 150P/UV
R1006 1000/J3
2SD1328-TX Q1001
10K VR1001
CW
EVUNCA040A14
R1011 1000/J3
IC1001 NJM4556AM-T1
R1014 330/J6
R1015 270/J6
FL1002 VLF1016A223T
R1013 27K/J3
R1012 1200/J3
C1002 150P/UV
R1016 1000/J3
2SD1328-TX Q1002
L
R
G
VJJ0378 J1001
R1010 0/J3

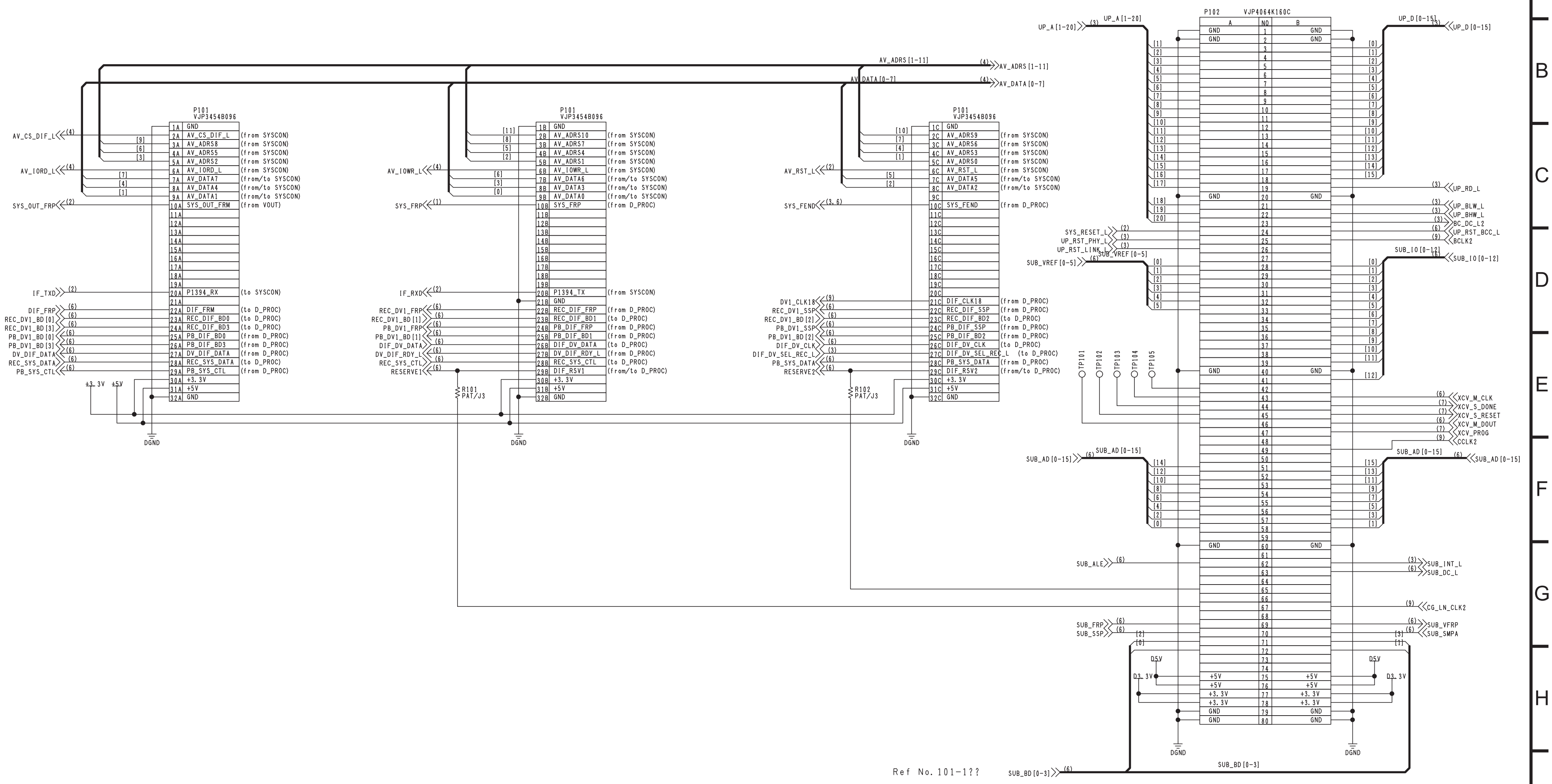
COMPONENT NAME	HP (HEAD PHONE)	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C15A	KR0Q25 (1/1)	
	SCM146	


TO FRONT
P2001
PAT/VJP1243T
1
2
3
CABLE
U2001
VWJ03CN060AA
1
4
2
3
SW2001
VSP1005

COMPONENT NAME	**EJECT**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C16A	KR0Q26 (1/1)	
	SCM147	

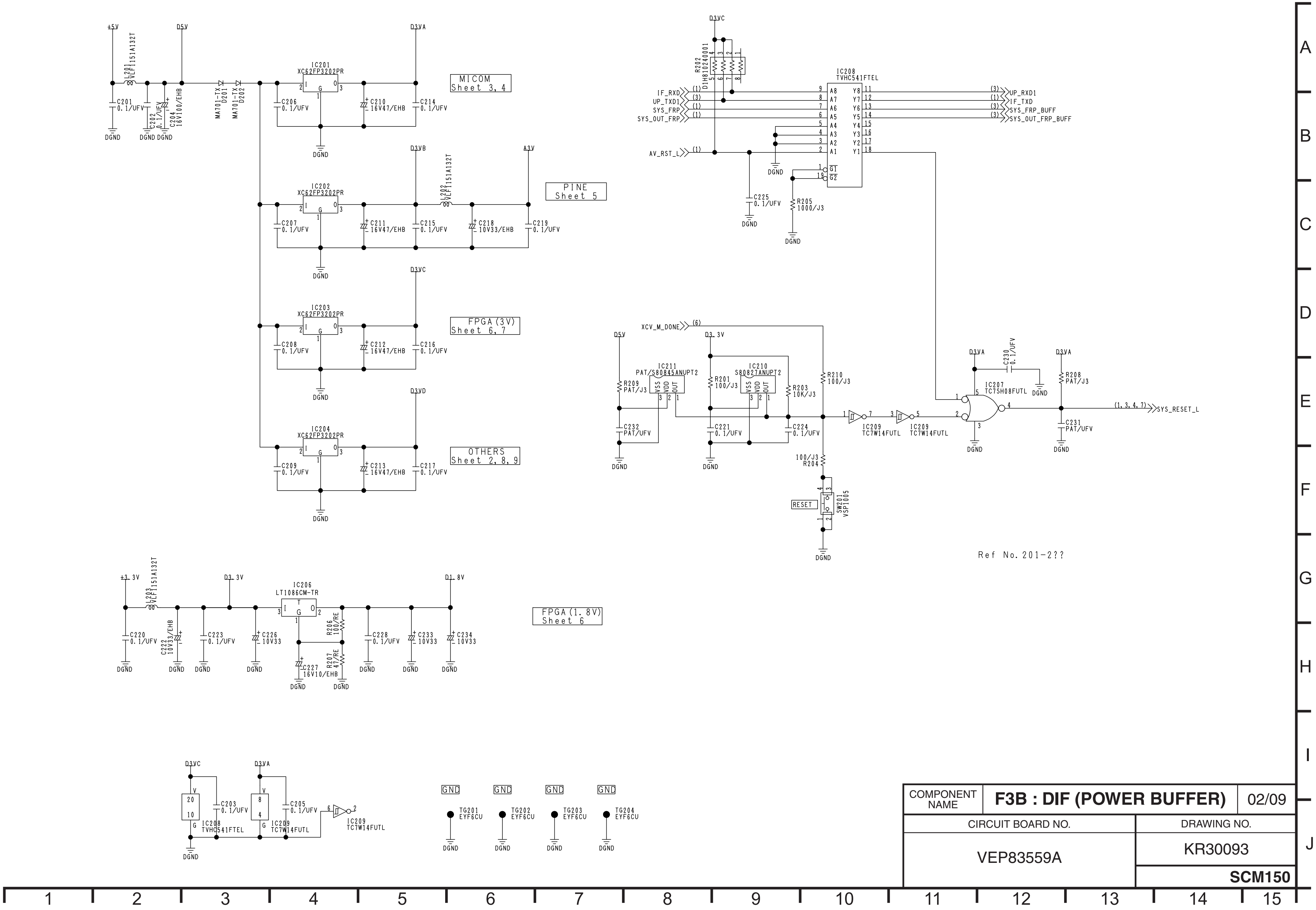

L101
PAT/ACM3225-601-2P-T
L102
PAT/ACM3225-601-2P-T
R101
0/DS
R102
0/DS
R103
0/DS
R104
0/DS
GNG 6
TPB- 5
TPB+ 4
GNG 3
TPA- 2
TPA+ 1
VJP3331B006
P102
DGND
P101
VJP3993
NO
VP 1 2 VG
TPB- 3 4 TPB+
TPA- 5 6 TPA+
FG 7
FG 8
FG 9
DGND
FGND
Ref No.101-1??

COMPONENT NAME	**DIF JACK (1394 JACK)**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C21A	KR0Q49 (1/1)	
	SCM148	


P101
VJP3454B096
P102
VJP4064K160C
AV_ADRS [1-11]
AV_DATA [0-7]
AV_CS_DIF_L
AV_IORD_L
SYS_OUT_FRP
IF_TXD
DIF_FRP
REC_DV1_BD [0]
REC_DV1_BD [3]
PB_DV1_BD [0]
PB_DV1_BD [3]
DV_DIF_DATA
REC_SYS_DATA
PB_SYS_CTL
AV_IOWR_L
SYS_FRP
IF_RXD
REC_DV1_FRP
REC_DV1_BD [1]
PB_DV1_FRP
PB_DV1_BD [1]
DIF_DV_DATA
DV_DIF_RDY_L
REC_SYS_CTL
RESERVE1
AV_RST_L
SYS_FEND
DV1_CLK18
REC_DV1_SSP
REC_DV1_BD [2]
PB_DV1_SSP
PB_DV1_BD [2]
DIF_DV_CLK
DIF_DV_SEL_REC_L
PB_SYS_DATA
RESERVE2
R101
PAT/J3
R102
PAT/J3
+3.3V
+5V
DGND
UP_A [1-20]
UP_D [0-15]
UP_RD_L
UP_BLW_L
UP_BHW_L
BC_DC_L2
UP_RST_BCC_L
BCLK2
SYS_RESET_L
UP_RST_PHY_L
UP_RST_LINK_L
SUB_VREF [0-5]
SUB_IO [0-12]
TP101
TP102
TP103
TP104
TP105
XCV_M_CLK
XCV_S_DONE
XCV_S_RESET
XCV_M_DOUT
XCV_PROG
CCLK2
SUB_AD [0-15]
SUB_ALE
SUB_INT_L
SUB_DC_L
CG_LN_CLK2
SUB_FRP
SUB_SSP
SUB_VFRP
SUB_SMPA
D5V
D3.3V
SUB_BD [0-3]
GND

Ref No. 101-1??

COMPONENT NAME	F3B : DIF (MOTHER)	01/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (1/9)	
	SCM149	


+5V
D5V
D3VA
L201
VLF1151A132T
C201
0.1/UFV
C202
0.1/UFV
C204
16V100/EHB
D201
MA701-TX
D202
MA701-TX
IC201
XC62FP3202PR
C206
0.1/UFV
C210
16V47/EHB
C214
0.1/UFV
MICOM
Sheet 3, 4
D3VB
A3V
IC202
XC62FP3202PR
L202
VLF1151A132T
C207
0.1/UFV
C211
16V47/EHB
C215
0.1/UFV
C218
10V33/EHB
C219
0.1/UFV
PINE
Sheet 5
D3VC
IC203
XC62FP3202PR
C208
0.1/UFV
C212
16V47/EHB
C216
0.1/UFV
FPGA (3V)
Sheet 6, 7
D3VD
IC204
XC62FP3202PR
C209
0.1/UFV
C213
16V47/EHB
C217
0.1/UFV
OTHERS
Sheet 2, 8, 9
DGND
+3.3V
L203
VLF1151A132T
D3.3V
IC206
LT1086CM-TR
D1.8V
C220
0.1/UFV
C222
10V33/EHB
C223
0.1/UFV
C226
10V33
C227
16V10/EHB
R206
100/RE
R207
47/RE
C228
0.1/UFV
C233
10V33
C234
10V33
FPGA (1.8V)
Sheet 6
D3VC
D3VA
IC208
TVHC541FTEL
C203
0.1/UFV
IC209
TC7W14FUTL
C205
0.1/UFV
GND
TG201
EYF6CU
TG202
EYF6CU
TG203
EYF6CU
TG204
EYF6CU
R202
D1H810240001
IC208
TVHC541FTEL
IF_RXD
UP_TXD1
SYS_FRP
SYS_OUT_FRP
AV_RST_L
UP_RXD1
IF_TXD
SYS_FRP_BUFF
SYS_OUT_FRP_BUFF
C225
0.1/UFV
R205
1000/J3
XCV_M_DONE
D5V
D3.3V
IC211
PAT/S80845ANUPT2
IC210
S80827ANUPT2
R209
PAT/J3
R201
100/J3
R203
10K/J3
R210
100/J3
C232
PAT/UFV
C221
0.1/UFV
C224
0.1/UFV
R204
100/J3
RESET
SW201
VSP1005
IC209
TC7W14FUTL
IC209
TC7W14FUTL
D3VA
C230
0.1/UFV
IC207
TC7SH08FUTL
R208
PAT/J3
C231
PAT/UFV
SYS_RESET_L
(1,3,4,7)
Ref No. 201-2??
A
B
C
D
E
F
G
H
I
J
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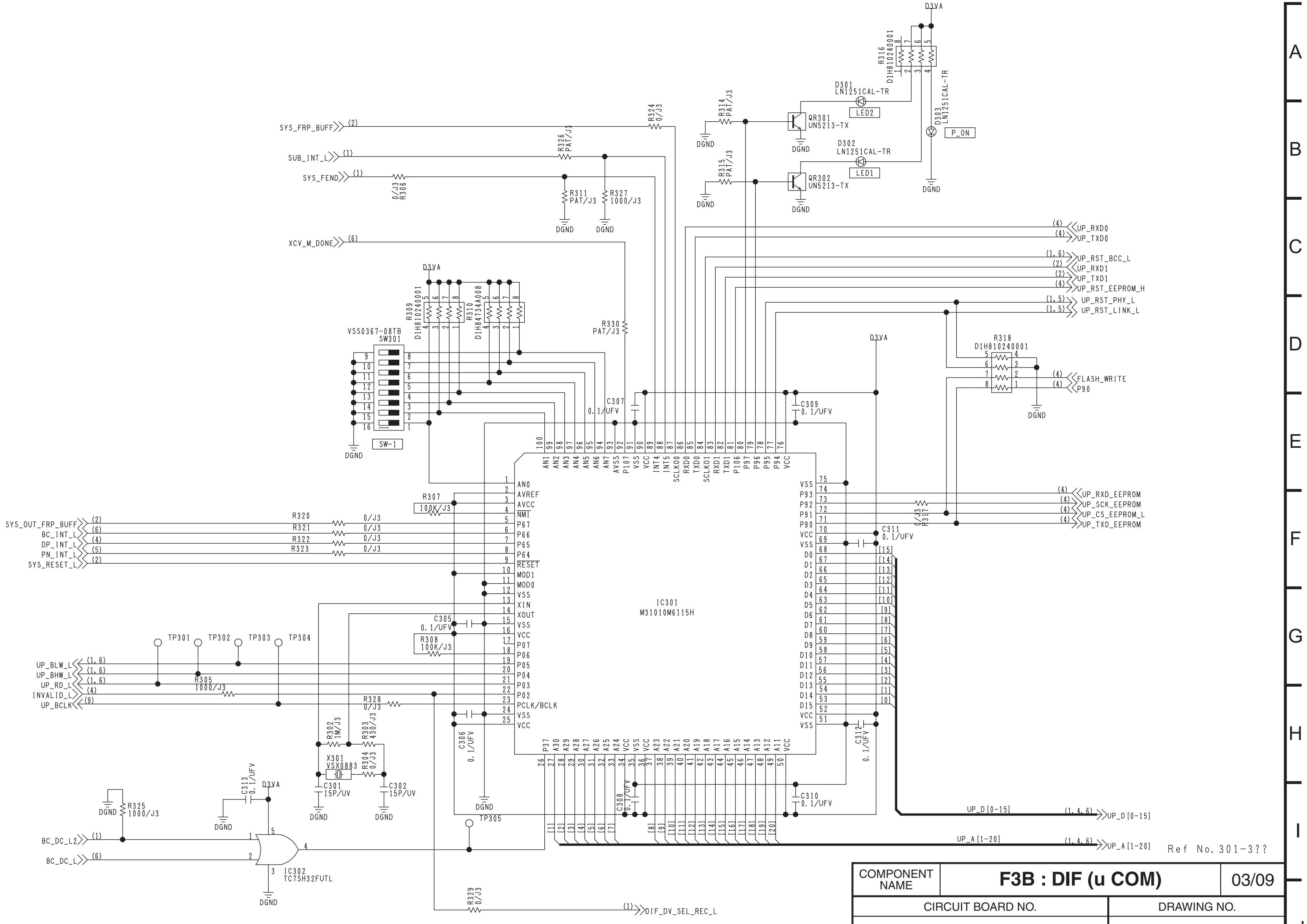
COMPONENT NAME	F3B : DIF (POWER BUFFER)	02/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093	
	SCM150	


D3VA
R316
D1H810240001
D301
LN1251CAL-TR
LED2
D303
LN1251CAL-TR
P_ON
R314
PAT/J3
QR301
UN5213-TX
DGND
R315
PAT/J3
QR302
UN5213-TX
D302
LN1251CAL-TR
LED1
SYS_FRP_BUFF (2)
R324
0/J3
SUB_INT_L (1)
R326
PAT/J3
SYS_FEND (1)
R306
0/J3
R311
PAT/J3
R327
1000/J3
XCV_M_DONE (6)
(4) UP_RXD0
(4) UP_TXD0
(1,6) UP_RST_BCC_L
(2) UP_RXD1
(2) UP_TXD1
(4) UP_RST_EEPROM_H
(1,5) UP_RST_PHY_L
(1,5) UP_RST_LINK_L
R309
D1H810240001
R310
D1H84734A008
VSS0367-08TB
SW301
SW-1
R330
PAT/J3
C307
0.1/UFV
C309
0.1/UFV
R318
D1H810240001
(4) FLASH_WRITE
(4) P90
IC301
M31010M6115H
AN0
AVREF
AVCC
NMI
P67
P66
P65
P64
RESET
MOD1
MOD0
VSS
XIN
XOUT
VSS
VCC
P07
P06
P05
P04
P03
P02
PCLK/BCLK
VSS
VCC
AN1
AN2
AN3
AN4
AN5
AN6
AN7
AVSS
P107
VSS
VCC
INT4
INT5
SCLKO0
RXD0
TXD0
SCLKO1
RXD1
TXD1
P106
P97
P96
P95
P94
VCC
VSS
P93
P92
P91
P90
VCC
VSS
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
VCC
VSS
P37
A30
A29
A28
A27
A26
A25
A24
VCC
VSS
VCC
A23
A22
A21
A20
A19
A18
A17
A16
A15
A14
A13
A12
A11
VCC
(4) UP_RXD_EEPROM
(4) UP_SCK_EEPROM
(4) UP_CS_EEPROM_L
(4) UP_TXD_EEPROM
R317
0/J3
C311
0.1/UFV
R307
100K/J3
SYS_OUT_FRP_BUFF (2)
BC_INT_L (6)
DP_INT_L (4)
PN_INT_L (5)
SYS_RESET_L (2)
R320
R321
R322
R323
0/J3
C305
0.1/UFV
R308
100K/J3
TP301
TP302
TP303
TP304
UP_BLW_L (1,6)
UP_BHW_L (1,6)
UP_RD_L (1,6)
INVALID_L (4)
UP_BCLK (9)
R305
1000/J3
R328
0/J3
C306
0.1/UFV
R302
1M/J3
R303
430/J3
X301
VSX0883
R304
0/J3
C301
15P/UV
C302
15P/UV
C312
0.1/UFV
C308
0.1/UFV
C310
0.1/UFV
UP_D[0-15]
(1,4,6) UP_D[0-15]
UP_A[1-20]
(1,4,6) UP_A[1-20]
TP305
R325
1000/J3
C313
0.1/UFV
BC_DC_L2 (1)
BC_DC_L (6)
IC302
TC75H32FUTL
R329
0/J3
(1) DIF_DV_SEL_REC_L
Ref No. 301-3??
A
B
C
D
E
F
G
H
I
J
1
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3
4
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14
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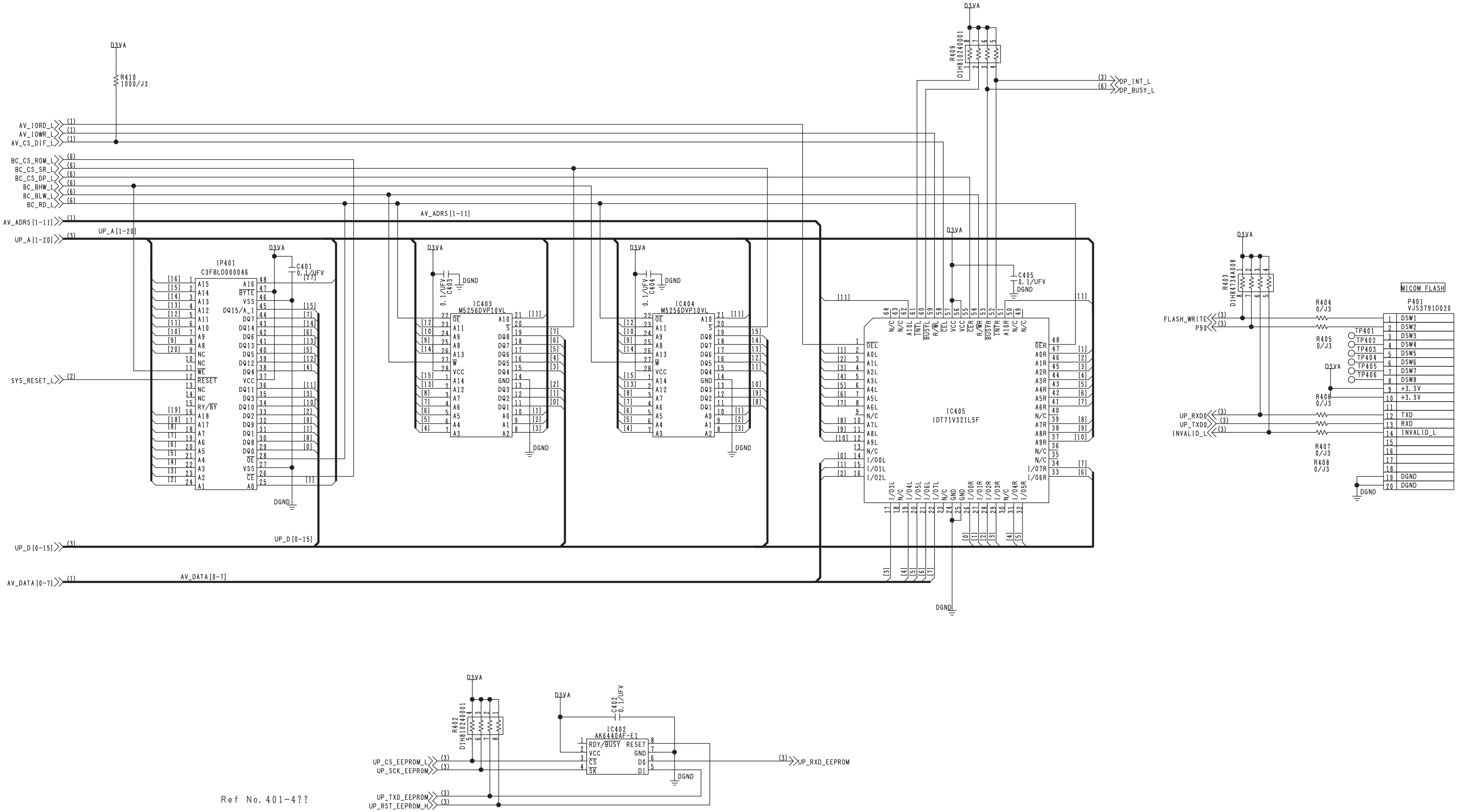
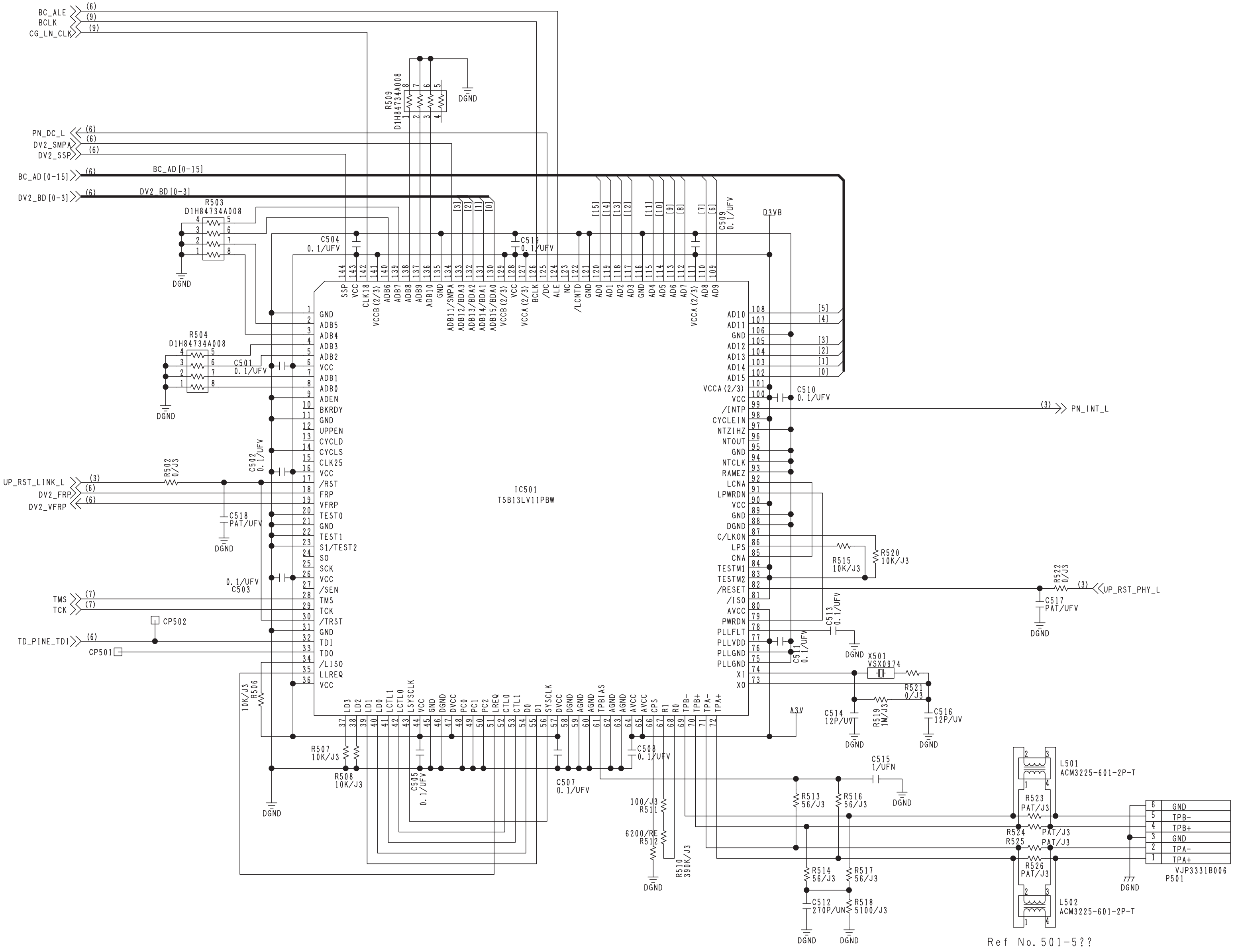
COMPONENT NAME	F3B : DIF (u COM)		03/09
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83559A		KR30093 (3/9)	
		SCM151	


D3VA
R410
1000/J3
AV_IORD_L
AV_IOWR_L
AV_CS_DIF_L
BC_CS_ROM_L
BC_CS_SR_L
BC_CS_DP_L
BC_BHW_L
BC_BLW_L
BC_RD_L
AV_ADRS[1-11]
UP_A[1-20]
SYS_RESET_L
UP_D[0-15]
AV_DATA[0-7]
IP401
C3FBLD000046
C401
0.1/UFV
DGND
IC403
M5256DVP10VL
C403
0.1/UFV
IC404
M5256DVP10VL
C404
0.1/UFV
IC405
IDT71V321L5F
C405
0.1/UFV
R409
D1H8I0240001
DP_INT_L
DP_BUSY_L
R403
D1H84734A008
MICOM FLASH
P401
VJS3791D020
FLASH_WRITE
P90
R404
0/J3
R405
0/J3
TP401
TP402
TP403
TP404
TP405
TP406
R406
0/J3
R407
0/J3
R408
0/J3
UP_RXD0
UP_TXD0
INVALID_L
DSW1
DSW2
DSW3
DSW4
DSW5
DSW6
DSW7
DSW8
+3.3V
+3.3V
TXD
RXD
INVALID_L
DGND
DGND
R402
D1H8I0240001
IC402
AK6440AF-E1
C402
0.1/UFV
UP_CS_EEPROM_L
UP_SCK_EEPROM
UP_TXD_EEPROM
UP_RST_EEPROM_H
UP_RXD_EEPROM
Ref No. 401-4??

COMPONENT NAME	F3B : DIF (uCOM MEMORY)	04/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (4/9)	
	SCM152	


BC_ALE (6)
BCLK (9)
CG_LN_CLK (9)
PN_DC_L (6)
DV2_SMPA (6)
DV2_SSP (6)
BC_AD[0-15] (6)
DV2_BD[0-3] (6)
R509 D1H84734A008
DGND
R503 D1H84734A008
R504 D1H84734A008
C504 0.1/UFV
C519 0.1/UFV
C509 0.1/UFV
D3VB
C501 0.1/UFV
C502 0.1/UFV
C503 0.1/UFV
C505 0.1/UFV
C507 0.1/UFV
C508 0.1/UFV
C510 0.1/UFV
C511 0.1/UFV
C513 0.1/UFV
C518 PAT/UFV
C517 PAT/UFV
R502 0/J3
R522 0/J3
UP_RST_LINK_L (3)
DV2_FRP (6)
DV2_VFRP (6)
TMS (7)
TCK (7)
TD_PINE_TDI (6)
CP501
CP502
PN_INT_L (3)
UP_RST_PHY_L (3)
IC501
TSB13LV11PBW
R506 10K/J3
R507 10K/J3
R508 10K/J3
R515 10K/J3
R520 10K/J3
X501 VSX0974
R521 0/J3
R519 1M/J3
C514 12P/UV
C516 12P/UV
A3V
C515 1/UFN
R511 100/J3
R512 6200/RE
R510 390K/J3
R513 56/J3
R516 56/J3
R514 56/J3
R517 56/J3
C512 270P/UN
R518 5100/J3
L501 ACM3225-601-2P-T
L502 ACM3225-601-2P-T
R523 PAT/J3
R524 PAT/J3
R525 PAT/J3
R526 PAT/J3
P501 VJP3331B006
GND
TPB-
TPB+
GND
TPA-
TPA+
Ref No.501-5??
A
B
C
D
E
F
G
H
I
J
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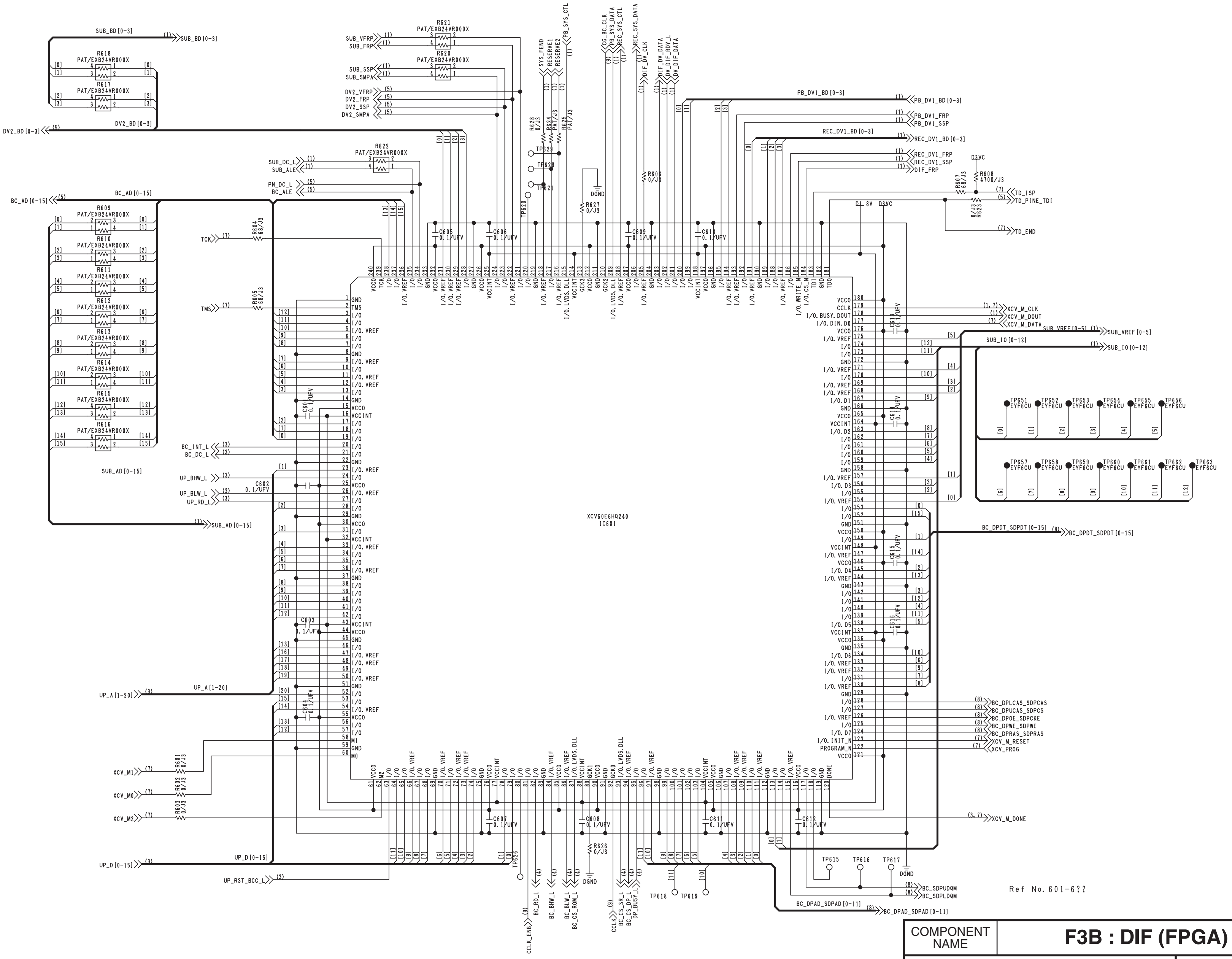
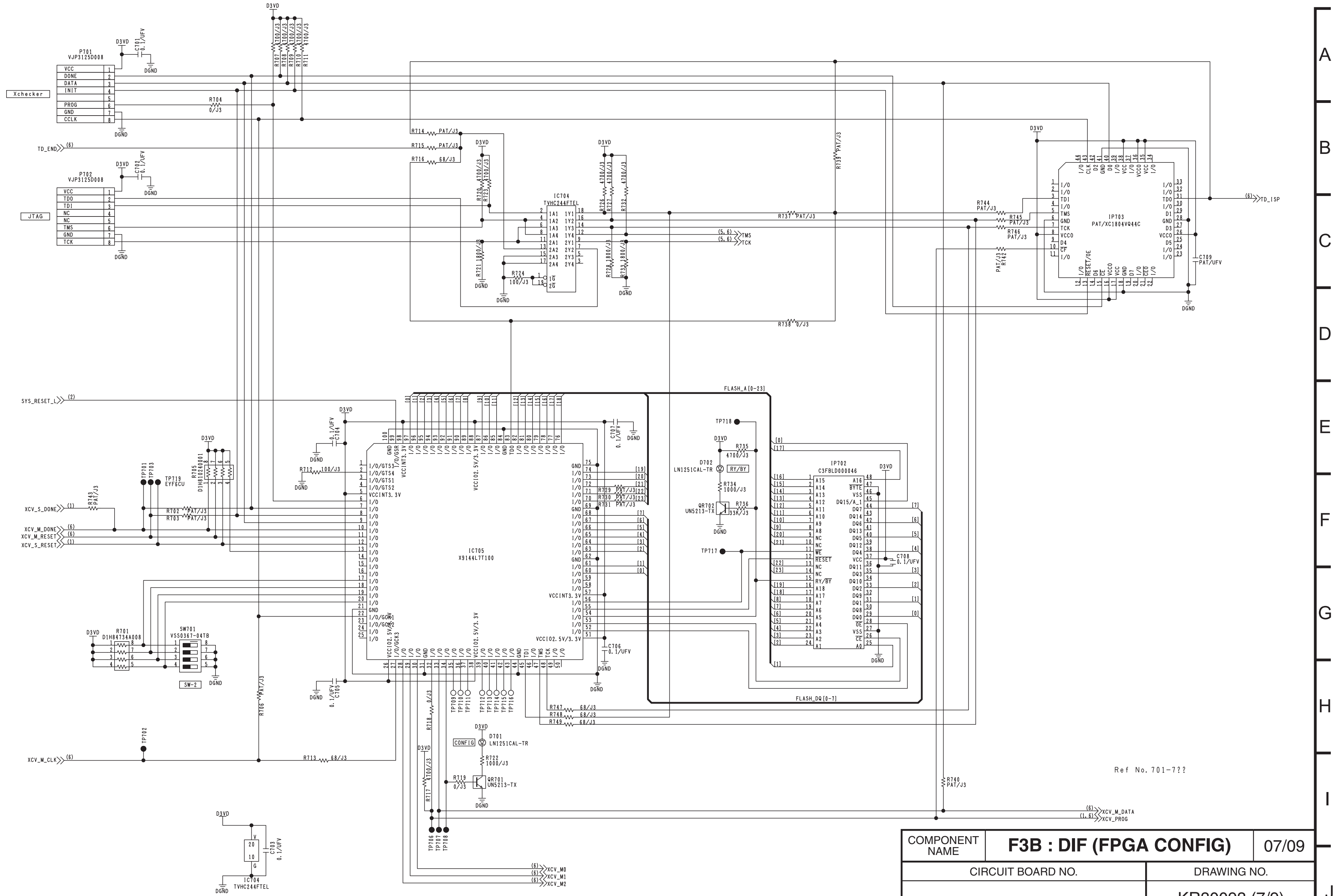
COMPONENT NAME	F3B : DIF (PINE)	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (5/9)	
	SCM153	

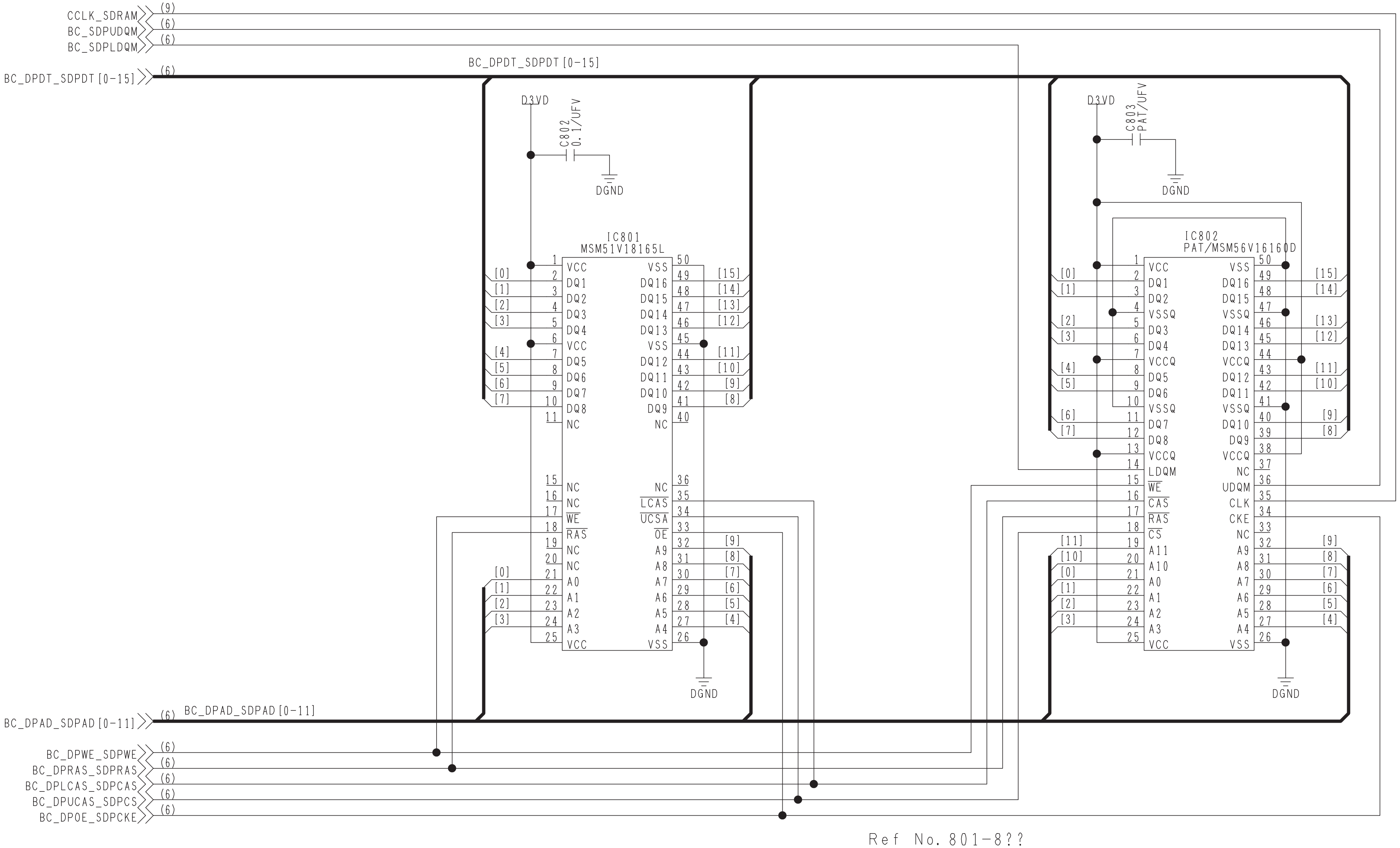

SUB_BD[0-3]
R618 PAT/EXB24VR000X
R617 PAT/EXB24VR000X
DV2_BD[0-3]
R621 PAT/EXB24VR000X
R620 PAT/EXB24VR000X
SUB_VFRP
SUB_FRP
SUB_SSP
SUB_SMPA
DV2_VFRP
DV2_FRP
DV2_SSP
DV2_SMPA
R622 PAT/EXB24VR000X
SUB_DC_L
SUB_ALE
PN_DC_L
BC_ALE
BC_AD[0-15]
R609 PAT/EXB24VR000X
R610 PAT/EXB24VR000X
R611 PAT/EXB24VR000X
R612 PAT/EXB24VR000X
R613 PAT/EXB24VR000X
R614 PAT/EXB24VR000X
R615 PAT/EXB24VR000X
R616 PAT/EXB24VR000X
SUB_AD[0-15]
TCK
R604 68/J3
TMS
R605 68/J3
BC_INT_L
BC_DC_L
UP_BHW_L
UP_BLW_L
UP_RD_L
C602 0.1/UFV
UP_A[1-20]
XCV_M1
XCV_M0
XCV_M2
R601 0/J3
R602 0/J3
R603 0/J3
UP_D[0-15]
UP_RST_BCC_L
PB_SYS_CTL
SYS_FEND
RESERVE1
RESERVE2
CG_BC_CLK
PB_SYS_DATA
REC_SYS_CTL
REC_SYS_DATA
DIF_DV_CLK
DIF_DV_DATA
DV_DIF_RDY_L
DV_DIF_DATA
R628 0/J3
R624 PAT/J3
R625 PAT/J3
TP629
TP628
TP621
TP620
R627 0/J3
DGND
R606 0/J3
C605 0.1/UFV
C606 0.1/UFV
C609 0.1/UFV
C610 0.1/UFV
PB_DV1_BD[0-3]
PB_DV1_FRP
PB_DV1_SSP
REC_DV1_BD[0-3]
REC_DV1_FRP
REC_DV1_SSP
DIF_FRP
D3VC
R608 4700/J3
R607 68/J3
R623 0/J3
TD_ISP
TD_PINE_TDI
TD_END
D1.8V
XCV_M_CLK
XCV_M_DOUT
XCV_M_DATA
SUB_VREF[0-5]
SUB_IO[0-12]
C613 0.1/UFV
C614 0.1/UFV
C615 0.1/UFV
C616 0.1/UFV
TP651 EYF6CU
TP652 EYF6CU
TP653 EYF6CU
TP654 EYF6CU
TP655 EYF6CU
TP656 EYF6CU
TP657 EYF6CU
TP658 EYF6CU
TP659 EYF6CU
TP660 EYF6CU
TP661 EYF6CU
TP662 EYF6CU
TP663 EYF6CU
XCV600E6HQ240
IC601
BC_DPDT_SDPDT[0-15]
BC_DPLCAS_SDPCAS
BC_DPUCAS_SDPCS
BC_DPOE_SDPCKE
BC_DPWE_SDPWE
BC_DPRAS_SDPRAS
XCV_M_RESET
XCV_PROG
XCV_M_DONE
C601 0.1/UFV
C603 0.1/UFV
C604 0.1/UFV
C607 0.1/UFV
C608 0.1/UFV
C611 0.1/UFV
C612 0.1/UFV
R626 0/J3
TP626
CCLK_ENB
BC_RD_L
BC_BHW_L
BC_BLW_L
BC_CS_ROM_L
CCLK
BC_CS_SR_L
BC_CS_DP_L
DP_BUSY_L
TP618
TP619
TP615
TP616
TP617
BC_SDPUDQM
BC_SDPLDQM
BC_DPAD_SDPAD[0-11]
Ref No.601-6??

COMPONENT NAME	F3B : DIF (FPGA)	06/09

CIRCUIT BOARD NO.	DRAWING NO.
VEP83559A	KR30093 (6/9)
	SCM154

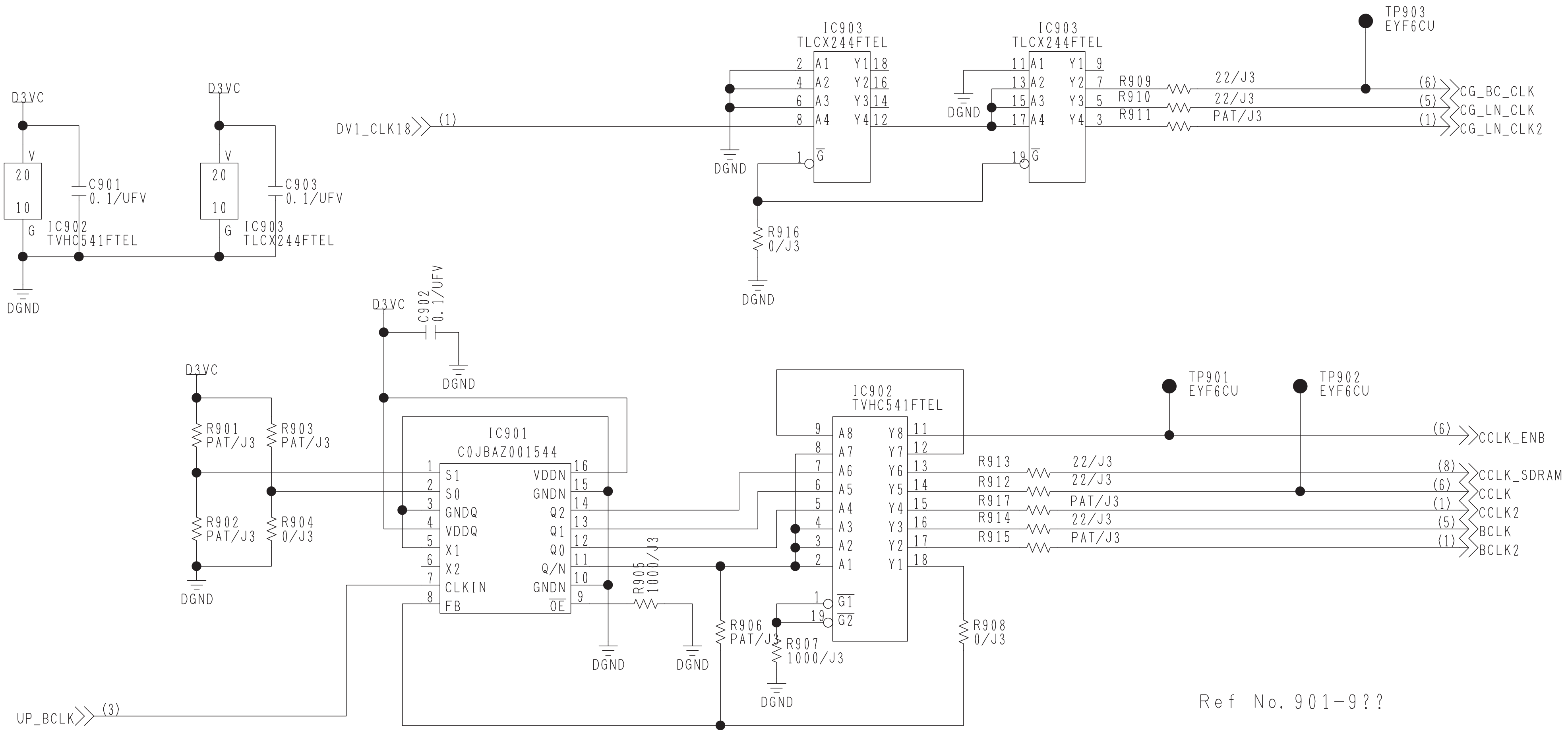

Xchecker
P701
VJP3125D008
VCC
DONE
DATA
INIT
PROG
GND
CCLK
JTAG
P702
VJP3125D008
TDO
TDI
NC
TMS
TCK
D3VD
DGND
C701 0.1/UFV
C702 0.1/UFV
R704 0/J3
R707 R708 R709 R710 R711 4700/J3
TD_END
R714 PAT/J3
R715 PAT/J3
R716 68/J3
IC704
TVHC244FTEL
R720 4700/J3
R723 4700/J3
R721 1800/J3
R724 100/J3
R726 R727 R732 4700/J3
R728 1800/J3
R733 1800/J3
TMS
TCK
R737 PAT/J3
R738 0/J3
R739 PAT/J3
IP703
PAT/XC1804VQ44C
R744 PAT/J3
R745 PAT/J3
R746 PAT/J3
R742 PAT/J3
C709 PAT/UFV
TD_ISP
SYS_RESET_L
XCV_S_DONE
XCV_M_DONE
XCV_M_RESET
XCV_S_RESET
R743 PAT/J3
TP701
TP703
TP719 EYF6CU
R705 D1H8102400001
R702 PAT/J3
R703 PAT/J3
R701 D1H84734A008
SW701 VSS0367-04TB
SW-2
IC705
X9144L7T100
C704 0.1/UFV
C705 0.1/UFV
C706 0.1/UFV
C707 0.1/UFV
R712 100/J3
R729 PAT/J3
R730 PAT/J3
R731 PAT/J3
FLASH_A[0-23]
FLASH_DQ[0-7]
TP718
D702 LN1251CAL-TR
RY/BY
R735 4700/J3
R734 1000/J3
QR702 UN5213-TX
R736 33K/J3
TP717
IP702
C3FBLD000046
C708 0.1/UFV
R706 PAT/J3
TP702
XCV_M_CLK
R713 68/J3
R718 0/J3
R717 4700/J3
TP709 TP710 TP711 TP712 TP713 TP714 TP715 TP716
D701 LN1251CAL-TR
CONFIG
R722 1000/J3
R719 0/J3
QR701 UN5213-TX
R747 68/J3
R748 68/J3
R749 68/J3
R740 PAT/J3
XCV_M_DATA
XCV_PROG
TP706 TP707 TP708
XCV_M0
XCV_M1
XCV_M2
IC704 TVHC244FTEL
C703 0.1/UFV
Ref No. 701-7??
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	F3B : DIF (FPGA CONFIG)	07/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (7/9)	
	SCM155	


CCLK_SDRAM (9)
BC_SDPUDQM (6)
BC_SDPLDQM (6)
BC_DPDT_SDPDT[0-15] (6)
BC_DPDT_SDPDT[0-15]
D3VD
C802 0.1/UFV
DGND
D3VD
C803 PAT/UFV
DGND
IC801 MSM51V18165L
1 VCC, 2 DQ1, 3 DQ2, 4 DQ3, 5 DQ4, 6 VCC, 7 DQ5, 8 DQ6, 9 DQ7, 10 DQ8, 11 NC
15 NC, 16 NC, 17 WE, 18 RAS, 19 NC, 20 NC, 21 A0, 22 A1, 23 A2, 24 A3, 25 VCC
50 VSS, 49 DQ16, 48 DQ15, 47 DQ14, 46 DQ13, 45 VSS, 44 DQ12, 43 DQ11, 42 DQ10, 41 DQ9, 40 NC
36 NC, 35 LCAS, 34 UCSA, 33 OE, 32 A9, 31 A8, 30 A7, 29 A6, 28 A5, 27 A4, 26 VSS
IC802 PAT/MSM56V16160D
1 VCC, 2 DQ1, 3 DQ2, 4 VSSQ, 5 DQ3, 6 DQ4, 7 VCCQ, 8 DQ5, 9 DQ6, 10 VSSQ, 11 DQ7, 12 DQ8, 13 VCCQ, 14 LDQM, 15 WE, 16 CAS, 17 RAS, 18 CS, 19 A11, 20 A10, 21 A0, 22 A1, 23 A2, 24 A3, 25 VCC
50 VSS, 49 DQ16, 48 DQ15, 47 VSSQ, 46 DQ14, 45 DQ13, 44 VCCQ, 43 DQ12, 42 DQ11, 41 VSSQ, 40 DQ10, 39 DQ9, 38 VCCQ, 37 NC, 36 UDQM, 35 CLK, 34 CKE, 33 NC, 32 A9, 31 A8, 30 A7, 29 A6, 28 A5, 27 A4, 26 VSS
DGND
DGND
BC_DPAD_SDPAD[0-11] (6)
BC_DPAD_SDPAD[0-11]
BC_DPWE_SDPWE (6)
BC_DPRAS_SDPRAS (6)
BC_DPLCAS_SDPCAS (6)
BC_DPUCAS_SDPCS (6)
BC_DPOE_SDPCKE (6)

Ref No.801-8??

COMPONENT NAME	F3B : DIF (FPGA DRAM)	08/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (8/9)	
	SCM156	


IC903
TLCX244FTEL
2 A1 Y1 18
4 A2 Y2 16
6 A3 Y3 14
8 A4 Y4 12
1 G
DV1_CLK18
(1)
DGND
R916
0/J3
IC903
TLCX244FTEL
11 A1 Y1 9
13 A2 Y2 7
15 A3 Y3 5
17 A4 Y4 3
19 G
R909 22/J3
R910 22/J3
R911 PAT/J3
TP903
EYF6CU
(6) CG_BC_CLK
(5) CG_LN_CLK
(1) CG_LN_CLK2
D3VC
V
20
10
G
C901
0.1/UFV
IC902
TVHC541FTEL
C903
0.1/UFV
IC903
TLCX244FTEL
C902
0.1/UFV
IC901
C0JBAZ001544
1 S1
2 S0
3 GNDQ
4 VDDQ
5 X1
6 X2
7 CLKIN
8 FB
16 VDDN
15 GNDN
14 Q2
13 Q1
12 Q0
11 Q/N
10 GNDN
9 OE
R901 PAT/J3
R902 PAT/J3
R903 PAT/J3
R904 0/J3
R905 1000/J3
R906 PAT/J3
R907 1000/J3
R908 0/J3
IC902
TVHC541FTEL
9 A8 Y8 11
8 A7 Y7 12
7 A6 Y6 13
6 A5 Y5 14
5 A4 Y4 15
4 A3 Y3 16
3 A2 Y2 17
2 A1 Y1 18
1 G1
19 G2
TP901
EYF6CU
TP902
EYF6CU
(6) CCLK_ENB
R913 22/J3
R912 22/J3
R917 PAT/J3
R914 22/J3
R915 PAT/J3
(8) CCLK_SDRAM
(6) CCLK
(1) CCLK2
(5) BCLK
(1) BCLK2
UP_BCLK
(3)
A
B
C
D
E
F
G
H
I
J
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Ref No. 901-9??

COMPONENT NAME	F3B : DIF (CLKGEN)	09/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (9/9)	
	SCM157	

SECTION 1

SERVICE INFORMATION

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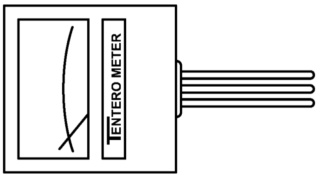
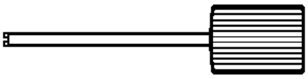
1. SERVICING FIXTURES & TOOLS

NO	NEW	PART NO.	FIXTURE & TOOL NAME	REMARKS
1		VFK1145A	Back Tension Meter	
2		VFK1149A	Post Driver	
3		VFK71A	Dial Torque Gauge (1.5 cN·m)	150 g
4		VFK1191A	Dial Torque Gauge (0.45 cN·m)	45 g
5		VFK1152	Dial Torque Gauge Adapter	
6		VFK0357	Eccentric Screwdriver (1.5 mm)	
7		VFK1154	Post Height Fixture	
8		VFK1153	Mech. Neutral Plate	
9		VFK1155	REV Position Tool (silver)	
10		VFK1156	PLAY Position Tool (black)	
11		VFK1208	Neutral Position Tool (black with hole)	
12		VFK1150	Nut Driver (5.5 mm)	
13		VFK1151	Nut Driver (2.5 mm)	
14		VFK1188A	Dial Tension Gauge	
15		VFK0948A	Check Light	
16		VFK0749	Froiral Grease (white)	for plastics part
17		MOR265	Morlytone Grease (black)	for metal part
18		VFK1146	Philips Driver (Fine) (00-75)	
19		VFK1147	Philips Driver (Fine) (00-100)	
20		VFK1148	Hex. Driver (1.5 mm)	
21		VFK1178	Hex. Driver (0.89 mm)	
22		VFK1179	Hex. Driver (0.71 mm)	
23		VFK1190	Hex. Wrench	
24		VFK1209A	Torque Driver (4 cN·m-30 cN·m)	0.4 kgf·cm –3 kgf·cm
25		VFK1375	Post Axis Driver (1.5 mm)	
26		VFK1300	A/D Board (DAQ-12 Quatech)	
27		VFM3580KM	DVCPRO Alignment Tape (No.1) for NTSC	or VFM3580KL
28		VFM3581KM	DVCPRO Alignment Tape (No.2) for NTSC	or VFM3581KL
29		VFM3582KM	DVCPRO Alignment Tape (No.3) for NTSC	or VFM3582KL
30		VFM3010EDS	DV Alignment Tape (Color Bars) for NTSC	
31		VFM3000EDS	DV Alignment Tape for LISTA	
32		AJ-CL12MP	Cleaning Tape	SALES Route
33		VFK1423	Tape Beg./End Detection Cassette	
34		VFK1192	F Extender Board	
35		VFK1496	Extender Board	
36		VFK1481B	LISTA Software	
37		VFK1186	LISTA Cable	
38		VFK1503	Servo Version up Software	
39		VFK1590	C PLD Writer	
40		VFK1304A	Flash Memory Version up Tool	
41		VFK0906	Lubrication Oil	
42		VZZ0095	Cleaning Cloth	
		-----	EE Cleaner (Olympus Chemitec)	Camera/Electrical Appliances mass merchandisers

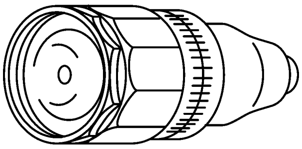
1 VFK1145A
Back Tension Meter



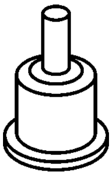
2 VFK1149A
Post Driver



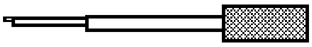
3 VFK71A
4 VFK1191A
Dial Torque Gauge



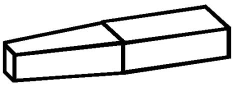
5 VFK1152
Dial Torque Gauge Adapter



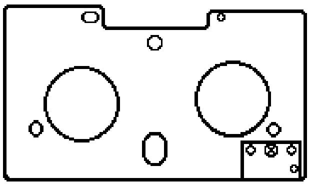
6 VFK0357
Eccentric Screwdriver (1.5 mm)



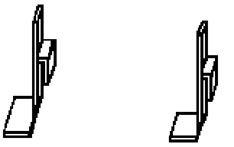
7 VFK1154
Post Height Fixture



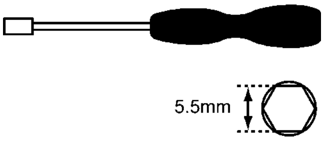
8 VFK1153
Mech. Neutral Plate



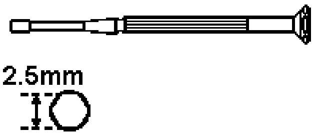
9 VFK1155 **(REV/Silver)**
10 VFK1156 **(PLAY/Black)**
11 VFK1208
(Neutral/Black with hole)
Position Tool



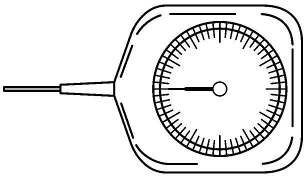
12 VFK1150
Nut Driver (5.5 mm)



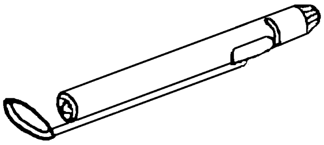
13 VFK1151
Nut Driver (2.5 mm)



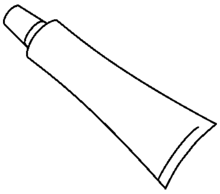
14 VFK1188A
Dial Tension Gauge



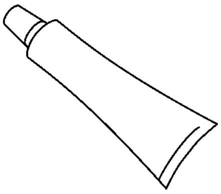
15 VFK0948A
Check Light



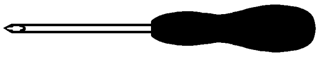
16 VFK0749
Froiral Grease
(for plastics)



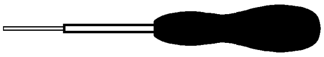
17 MOR265
Morlytone Grease
(for metal)



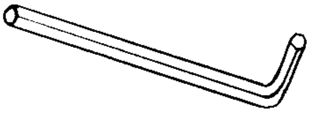
18 VFK1146 (00X75)
19 VFK1147 (0X100)
Philips Driver (Fine)



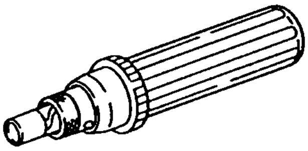
20 VFK1148 (1.5 mm)
21 VFK1178 (0.89 mm)
22 VFK1179 (0.71 mm)
Hex. Driver



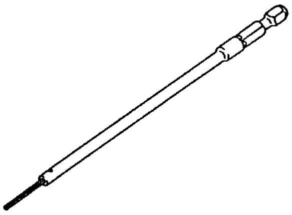
23 VFK1190 (1.5 mm)
Hex. Wrench



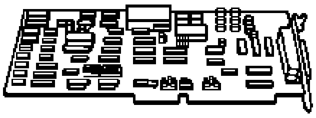
24 VFK1209A
Torque Driver



25 VFK1375
Post Axis Driver
(1.5 mm)



26 VFK1300
A/D Board
(Quatech DAQ-12)

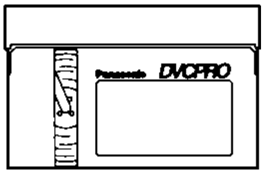


27 **VFM3580KM or L**

28 **VFM3581KM or L**

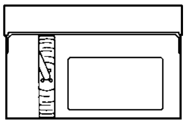
29 **VFM3582KM or L**

DVCPRO
Alignment Tape


Panasonic DVCPRO

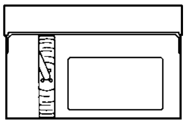
30 **VFM3010EDS**

DV Alignment Tape
(Color Bars) (NTSC)



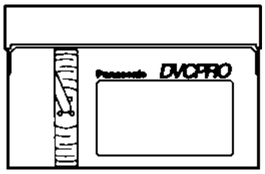
31 **VFM3000EDS**

DV Alignment Tape
(LISTA)



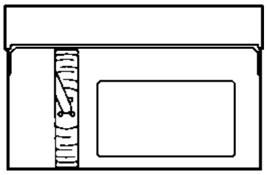
32 **AJ-CL12MP**

Cleaning Tape


Panasonic DVCPRO

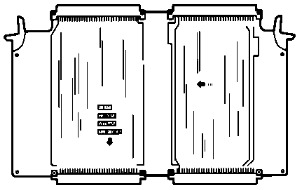
33 **VFK1423**

Tape Beg./End
Detection Cassette



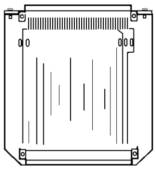
34 **VFK1192**

F Extender Board



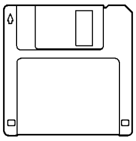
35 **VFK1496**

Extender Board



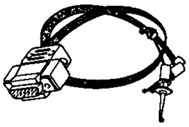
36 **VFK1481B**

LISTA Software



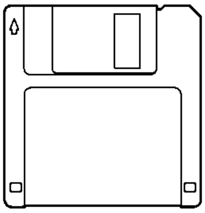
37 **VFK1186**

LISTA Cable



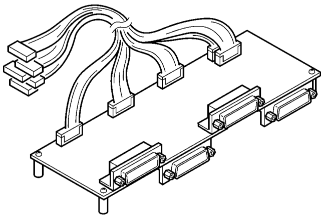
38 **VFK1503**

Servo Version up
software



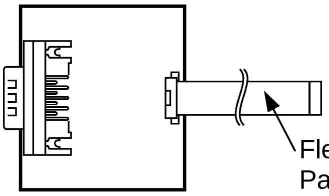
39 **VFK1590**

C PLD Writer



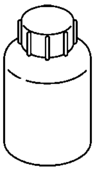
40 **VFK1304A**

Flash Memory Version up Tool
(VFK1304 includes the flexible
cable "VWJ20E5500L0")


Flexible cable
Part No.: VWJ20E5500L0

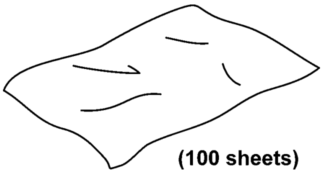
41 **VFK0906**

Lubrication Oil



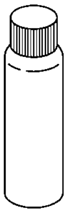
42 **VZZ0095**

Cleaning Cloth



43 **-----**

EE Cleaner



2. Alignment Tape

2-1. VFM3580KM / L (NTSC) (25 M adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar SMPTE(75%)	Confirmation of the composite video level	1KHz –20dB	Confirmation of the audio level	1KHz 0VU	Confirmation of the cue level
7:00	Color bar (100%)	Confirmation of the composite video level				
14:00	H sweep	Frequency characteristic			6KHz 0VU	A/C head azimuth adjustment
18:00	Bow tie (500K)	Y/C timing				
22:00	Pulse & bar	Y/C timing			300, 500, 1K 2K, 4K, 6KHz	Frequency characteristic
26:00	Area marker	Video start timing			-----	-----

2-2. VFM3581KM / L (NTSC) (Manufacturer (LISTA) adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

2-3. VFM3582KM / L (NTSC) (Manufacturer (X-value) adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purposei	Signal	Purpose
0:00	Color bar (75%) (with drop-out track)	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment

2-4. VFM3010EDS (NTSC) (DV adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar	EQ adjustment	1,102.5KHz		-----	-----

2-5. VFM3000EDS (DV (LISTA) adjustment tape)

TIME (min.)	VIDEO		PCM AUDIO		CUE	
	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	LISTA signal	Adjustment of the linearity	-----	-----	-----	-----

3. List of Recommended Measuring Instruments

MODEL NO. (Example)	NAME	REMARK
	NTSC analog component signal generator (with CF OUT)	
	NTSC analog composite signal generator (with CF OUT)	
1760 (op. SC) or 1780R	SCH meter (NTSC)	Tectronix
	Waveform monitor (NTSC)	
	Vector scope (NTSC)	
	Oscilloscope	
	Digital voltmeter (D.V.M.)	
	Frequency counter	
	Audio noise meter	
	Audio analyzer	
	Spectrum analyzer	

4. Maintenance

4-1. Maintenance Schedule

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the functions always in the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms uses wear parts, and their wear and deterioration causes troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

	Part name	Part No.	Hours of use (unit: hours)				
			Every 1000	3000	6000	9000	12,000
-	Cleaning of the travel system	-----	C: Every 500 hours				
-	Mechanical chassis unit	VXY1631Z1					**R**
1	Cylinder Unit	VEG1498		**R**	**R**	**R**	**IM**
2	Pinch Arm Unit	VXL2835		**R, G**	**R, G**	**R, G**	**IM**
3	Cleaning Arm Unit	VXL2748	**R, Y**	**R, Y**	**R, Y**	**R, Y**	**IM**
4	S-Reel Moter Unit	VEM0686			**R**		**IM**
5	T-Reel Moter Unit	VEM0687			**R**		**IM**
6	Thrust Screw Unit	VXQ0556			**R, L**		**IM**
7	Mode SW Unit	VES0929			**R**		**IM**
8	S1 Loading Arm Unit	VXL2709					**IM**
9	T1 Boat Unit	VMD2533					**IM**
10	S5 Post Base Unit	VXA6052					**IM**
11	Tension Arm Unit	VXL2831					**IM**
12	A/C Head	VED0419					**IM**
13	Loading Motor (1) Arm Unit	VEM0645					**IM**
14	Reel Drive Motor Unit	VEM0585					**IM**
15	Pinch Solenoid	VSJ0227					**IM**
16	S Brake Solenoid	VSJ0216					**IM**
17	T Brake Solenoid	VSJ0216					**IM**
18	Distinction SW Unit	VXA6199					**IM**
19	Cleaner Solenoid	VSJ0226					**IM**
20	Main Cam Gear	VDG1168					**IM**
21	M Stopper Brake Solenoid	VSJ0216					**IM**
22	Front-loading unit	VXA6070					**R**
23	Front Loading Motor	VXA5597					**F**
24	Fan motor	L6FALEFH0007	Exchange after every 10,000 h of energization				

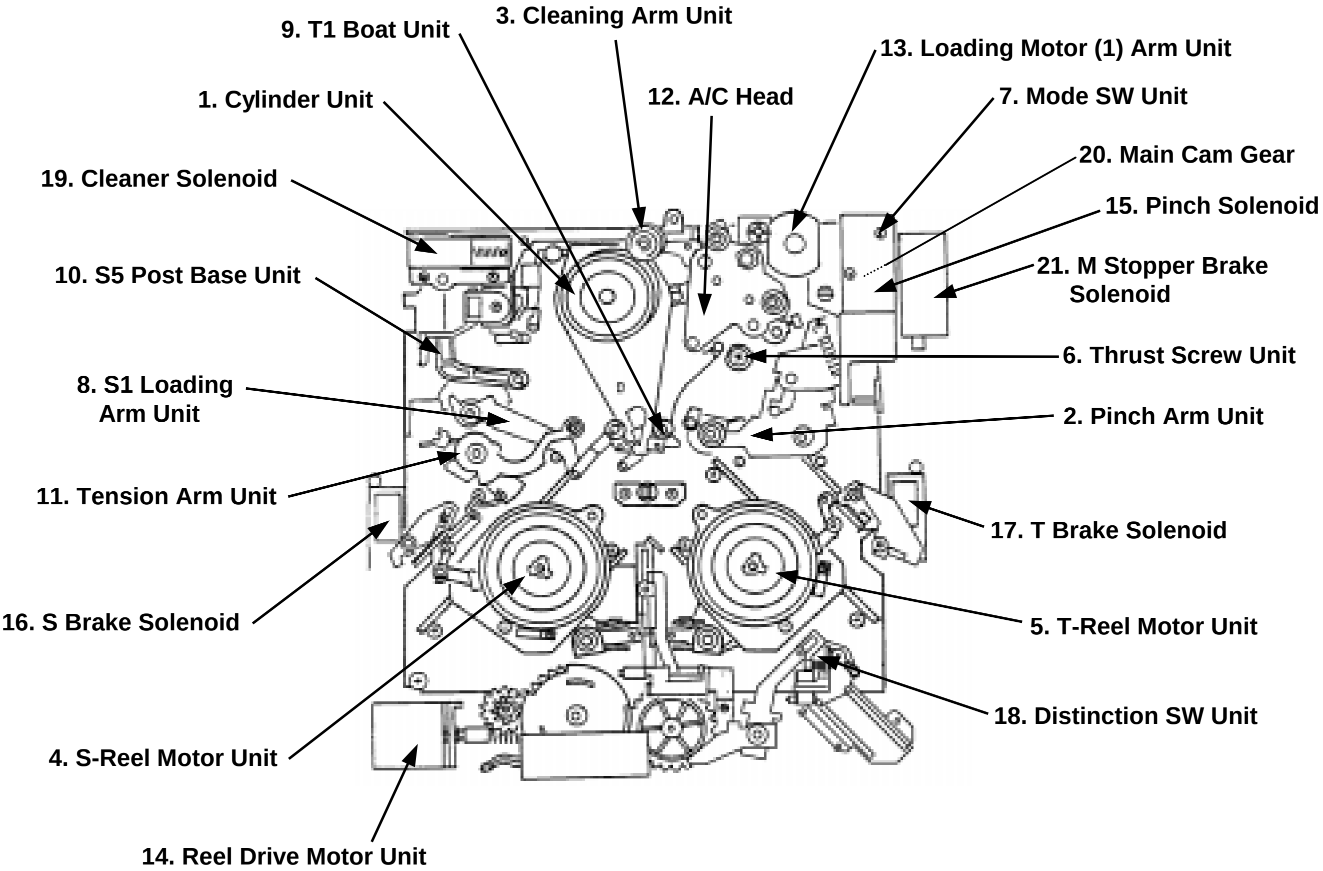
Replacement of the mechanical chassis unit is recommended for the 12,000 h maintenance.

C : Perform cleaning.
R : Assembly subject to exchange.
Y : The timing of replacement with Cleaning Arm Unit, either 1000 hours or 1 year as timing come earlier.
G : At the time of exchange, wipe off the old grease and apply new grease. (Morlytone grease)
L : Lubrication is necessary.
IM : Included in the mechanical chassis unit. When the mechanical chassis unit is not exchanged, exchange as a single part is required.
F : Included in the front-loading unit.

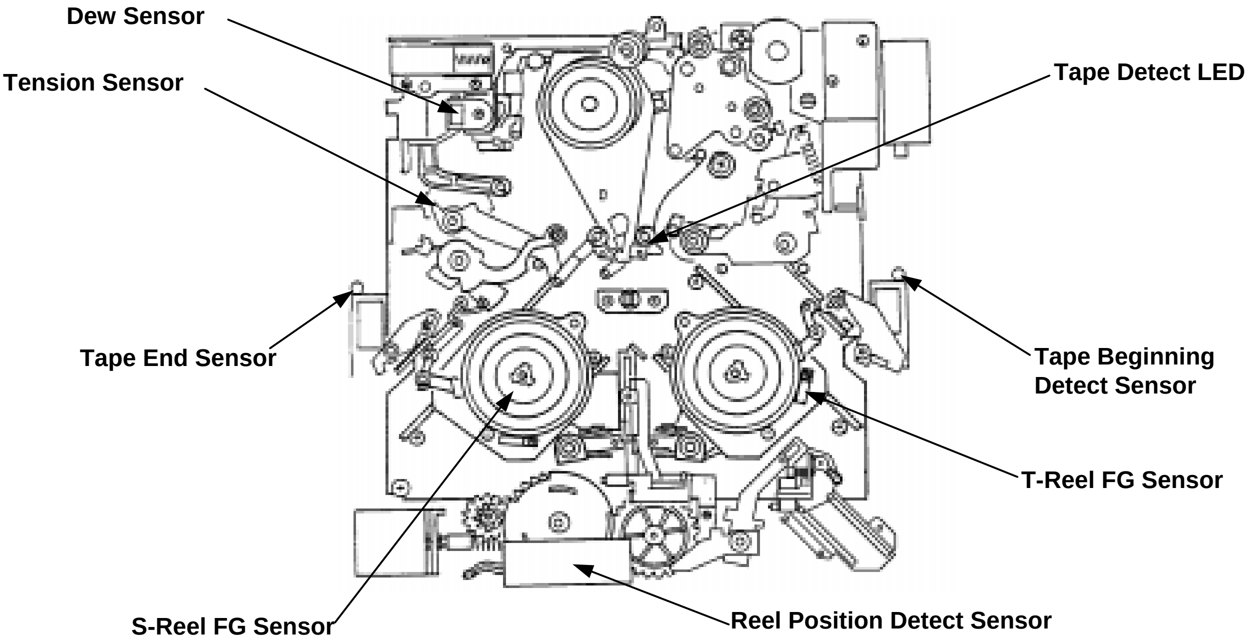
<Note:>

The Hours of use indicates the cylinder rotation time (DRUM RUN).
The maintenance execution time shown in the chart is recommendation for standard maintenance execution. This is not the life of the various parts. The life is influenced by temperature, humidity, dust, etc.
Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

4-2. Layout of the Maintenance Parts


9. T1 Boat Unit
3. Cleaning Arm Unit
13. Loading Motor (1) Arm Unit
1. Cylinder Unit
12. A/C Head
7. Mode SW Unit
20. Main Cam Gear
19. Cleaner Solenoid
15. Pinch Solenoid
10. S5 Post Base Unit
21. M Stopper Brake Solenoid
6. Thrust Screw Unit
8. S1 Loading Arm Unit
2. Pinch Arm Unit
11. Tension Arm Unit
17. T Brake Solenoid
16. S Brake Solenoid
5. T-Reel Motor Unit
18. Distinction SW Unit
4. S-Reel Motor Unit
14. Reel Drive Motor Unit

4-3. Layout of the Other Parts


Dew Sensor
Tension Sensor
Tape Detect LED
Tape End Sensor
Tape Beginning Detect Sensor
T-Reel FG Sensor
S-Reel FG Sensor
Reel Position Detect Sensor

5. Manual Tape Eject (Emergency Eject)

When a tape can not be ejected by normal operation due to some frouble, the tape can be removed manually as follows.

1. Turn off power and remove the top Case Unit.
2. Rotate the red plastic screw by a Phillips-head screwdriver counterclockwise pushing the screw. It needs to rotate until Post starts moving. (about 30 times rotation).

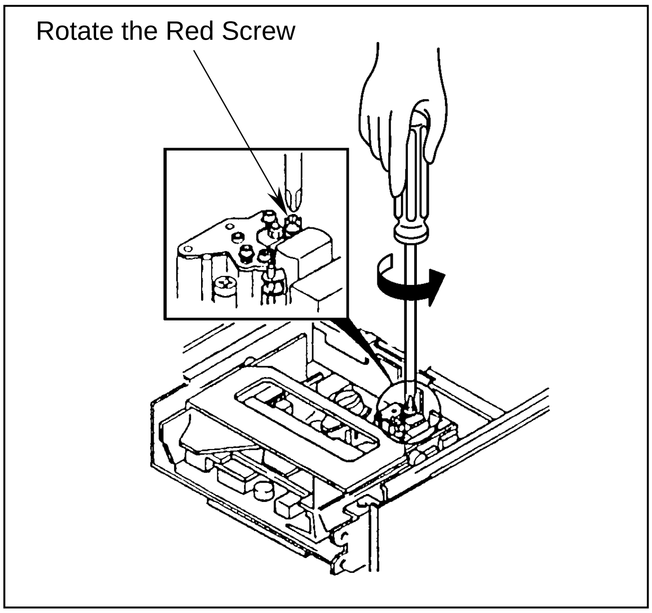


Figure 5-1. Post unloading

3. Since tape slack will occur when the post is unloaded, rotate the supply reel to wind up the tape.
   How to wind up the tape (see Figure 5-2)
   a. Insert the rubber side of the take-up jig to the cassette rid opening position from mechanism side.
   b. Turn the flange of the supply reel in the direction of winding to eliminate the tape slack. (Take care not to damage the tape in the process.)

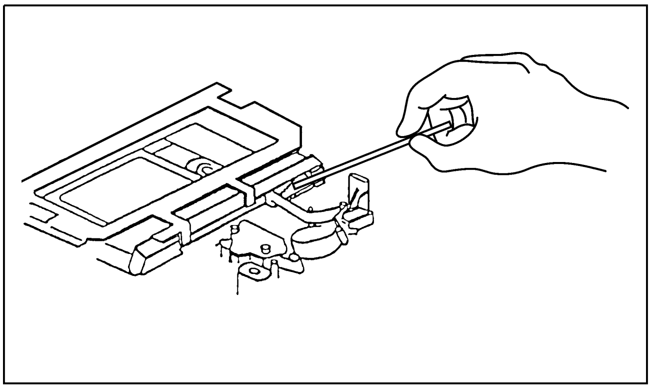


Figure 5-2. Rotate the S Reel

4. Repeat item 2 and 3 until the tape in wound up completely inside of the cassette.
5. When the tape is completely gotten inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a philips-head screwdriver pushing the screw. Remove the cassette with care not to pinch the tape by cassette rid when it is closed.

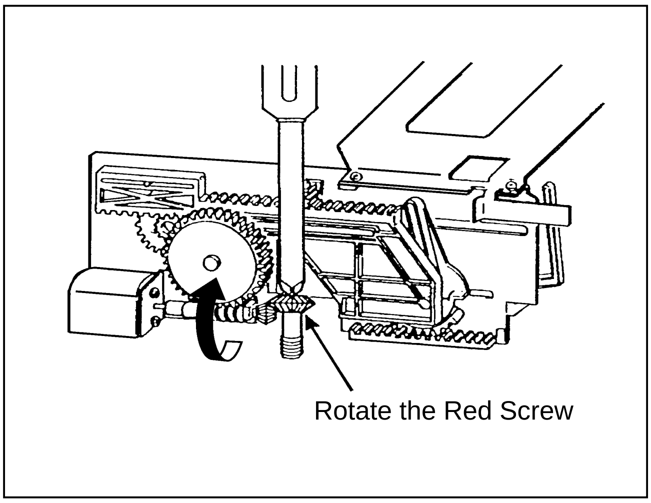
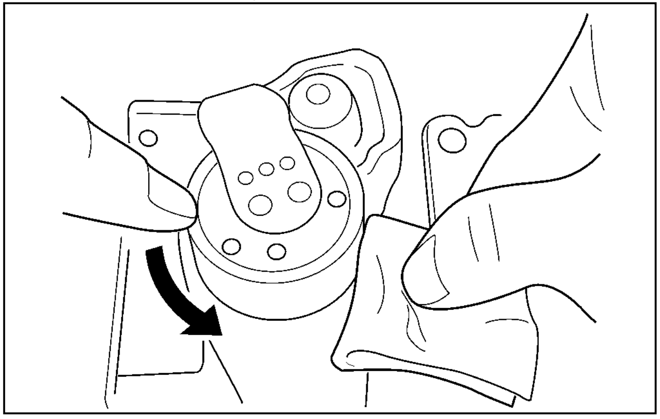


Figure 5-3. Cassette unloading

6. Cylinder Head Cleaning Method

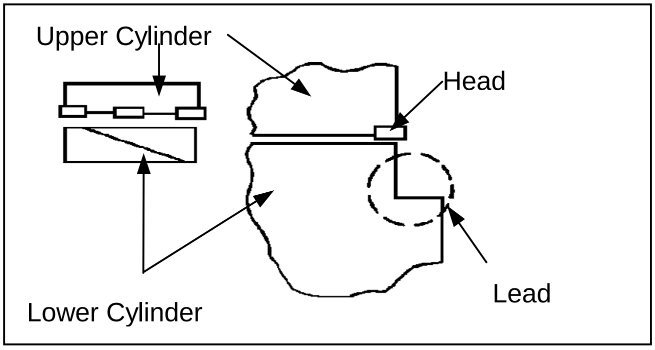
6-1. Cylinder Head Chips Cleaning Method: (Daily)

1. Turn off Power.
2. Dip cloth into De-natural Alcohol.
3. Press cleaning cloth gently against Cylinder Head. Using your finger on the top edge of the upper cylinder, rotate the cylinder counter-clockwise several times to clean.
4. Repeat cleaning procedure until all residue is removed from Cylinder Head.



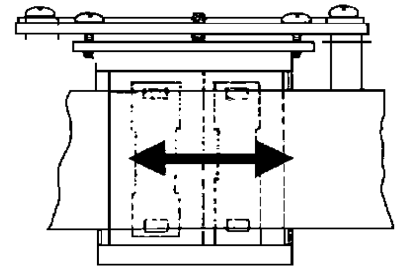
6-2. Cylinder Lead Cleaning Method: (Weekly)

Don't touch a head chip. Clean the drum lead with a pick.



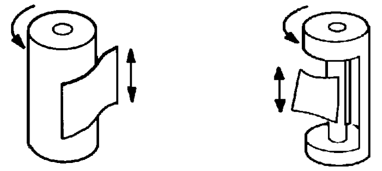
6-3. A/C Head Cleaning Method: (Weekly)

Wipe the A/C head with a cloth dipped in cleaning liquid. Wipe again with a dry cloth.



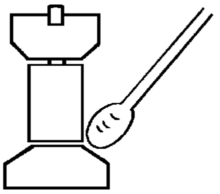
6-4. Pinch Roller and Capstan Shaft Cleaning Method:(Weekly)

Wipe the Pinch Roller and Capstan with a cloth dipped in cleaning liquid.



6-5. Post Cleaning Method: (Weekly)

Wind a cloth on a pick. Wipe each posts with that pick. Wipe again with a dry cloth. For metal posts wipe with a cloth dipped in cleaning liquid. Then wipe it again with dry cloth.

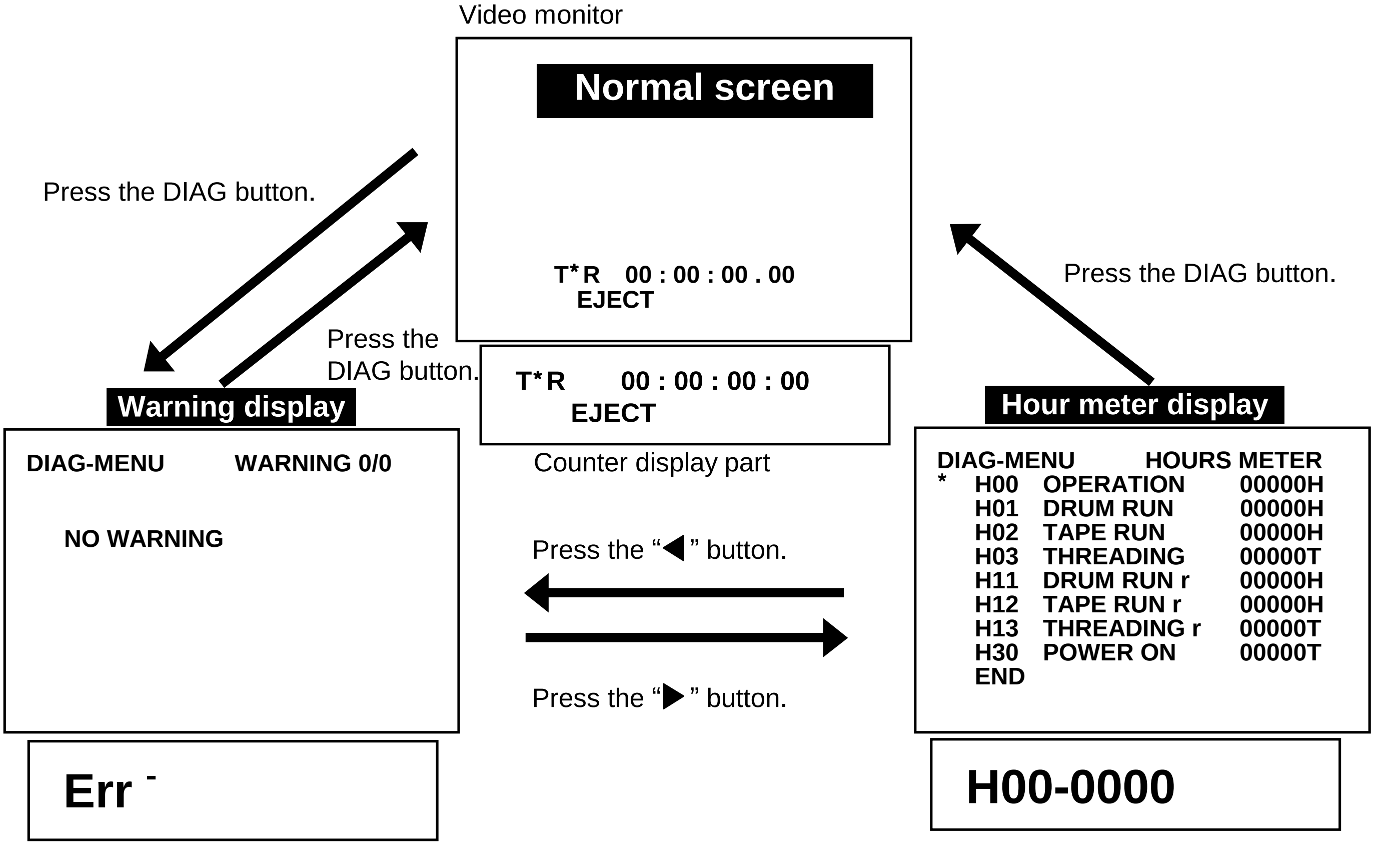


7. DIAG-MENU Display

The **DIAG-MENU** is the menu for investigating the status of the VTR, and it has the warning display (WARNING) and the hour meter display (HOURS METER).

7-1. DIAG-MENU Operation Method

1. Press the “**DIAG**” button.“**DIAG-MENU**” will be displayed on the video monitor (VIDEO OUT 3) and on the counter display (front panel).
2. The display switches between the warning information and the hour meter information each time when the “◀ ▶” is pressed.
3. When the “**DIAG**” button is pressed again, it returns to the normal screen.


Video monitor
Normal screen
Press the DIAG button.
Press the DIAG button.
Press the DIAG button.
Warning display
Hour meter display
Counter display part
Press the “◀” button.
Press the “▶” button.

```
T*R   00 : 00 : 00 . 00
  EJECT
```

```
T*R       00 : 00 : 00 : 00
    EJECT
```

```
DIAG-MENU         WARNING 0/0

   NO WARNING
```

```
Err -
```

```
DIAG-MENU          HOURS METER
*   H00   OPERATION      00000H
    H01   DRUM RUN       00000H
    H02   TAPE RUN       00000H
    H03   THREADING      00000T
    H11   DRUM RUN r     00000H
    H12   TAPE RUN r     00000H
    H13   THREADING r    00000T
    H30   POWER ON       00000T
    END
```

```
H00-0000
```

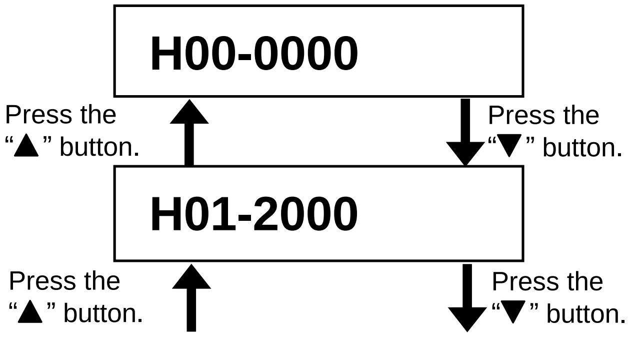
Please refer to operating instructions, in regard to the WARNING display (information).

7-2. Hour Meter Display

1. When the “▼” and “▲” button is pressed during hour meter display, the operation hours for each item can be confirmed on the counter display part (front panel).

```
DIAG-MENU         HOURS METER
*  H00   OPERATION        00000H
   H01   DRUM RUN         00000H
   H02   TAPE RUN         00000H
   H03   THREADING        00000T
   H11   DRUM RUN r       00000H
   H12   TAPE RUN r       00000H
   H13   THREADING r      00000T
   H30   POWER ON         00000T
   END
```

Video monitor



Counter display part (front panel)

7-3. How to Reset the Hour Meter

DRUM RUN, TAPE RUN and THREADING information can be reset individually.

1. Press the “EJECT” and “STOP” button simultaneously, and press the “DIAG” button. The Hour Meter page is displayed on the video monitor (VIDEO OUT 3).
2. Set the cursor “*” to the indicated “r” mark item(item H11,12 or 13) by pressing the cursor buttons (5 or 6). And press “RESET” button on the front panel, then the following message appears on the screen.

```
HOUR METER INIT SET


DRUM RUN r OK?
YES<PLAY> / NO <STOP>
```

3. Press “PLAY” button to reset the hour meter or “STOP” button to ignore the reset.

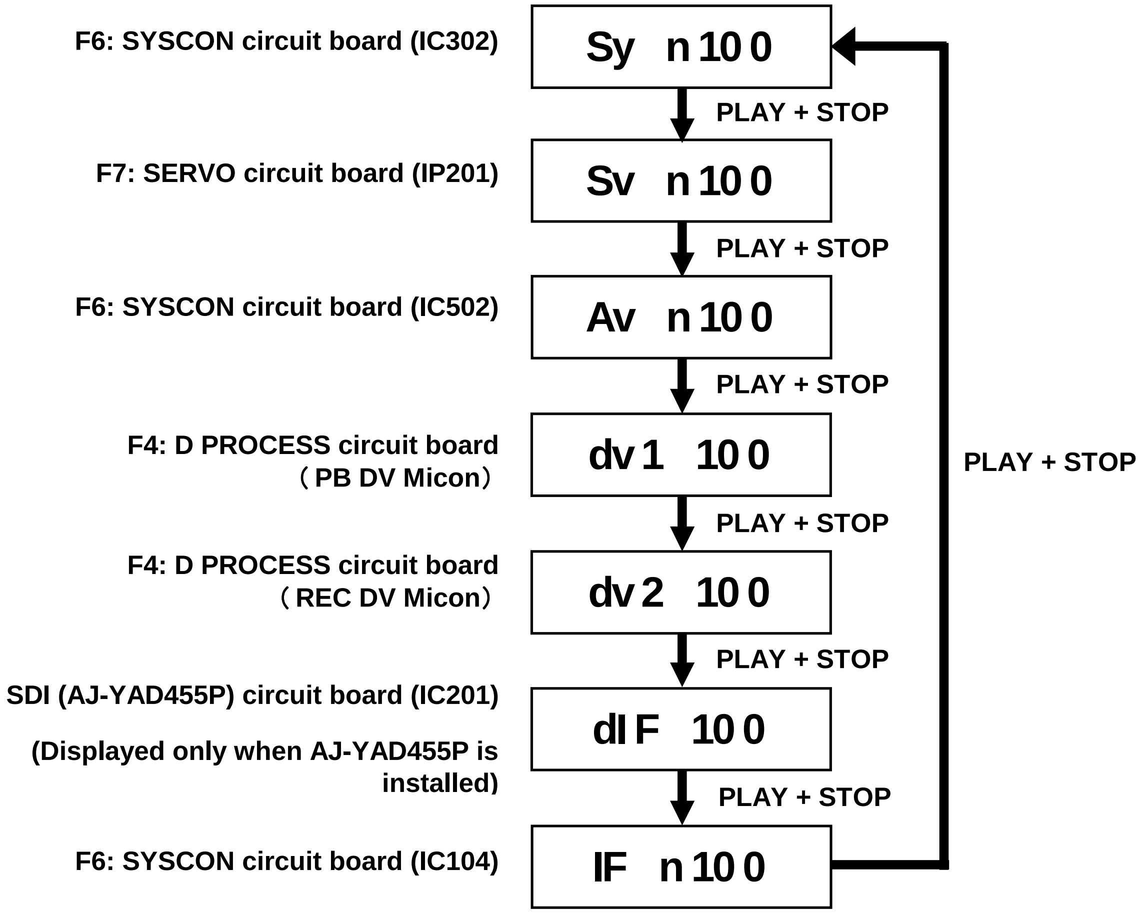
<Note>

Be careful, if press the “RESET” button more than 2 seconds when select the item H00-H03 and H30, the all hour meter informations are reseted to ZERO.

8. Software Version Display

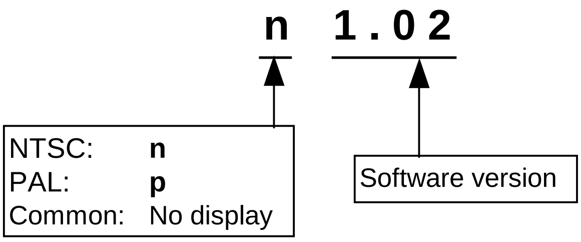
8-1. Version Display Operation Procedure

1. Press the “**EJECT**” button. (If a tape is inserted, eject it.)
2. When the “**PLAY**” button and the “**STOP**” button are pressed simultaneously, the version will be displayed on the counter display part (front panel) while these buttons are being pressed.
3. When the “**PLAY**” button and the “**STOP**” button are pressed again, the software version for each item can be confirmed.


F6: SYSCON circuit board (IC302)
Sy n 10 0
PLAY + STOP
F7: SERVO circuit board (IP201)
Sv n 10 0
PLAY + STOP
F6: SYSCON circuit board (IC502)
Av n 10 0
PLAY + STOP
F4: D PROCESS circuit board （PB DV Micon）
dv1 10 0
PLAY + STOP
F4: D PROCESS circuit board （REC DV Micon）
dv2 10 0
PLAY + STOP
SDI (AJ-YAD455P) circuit board (IC201)
(Displayed only when AJ-YAD455P is installed)
dIF 10 0
PLAY + STOP
F6: SYSCON circuit board (IC104)
IF n 10 0
PLAY + STOP

Counter diplay part (front panel)

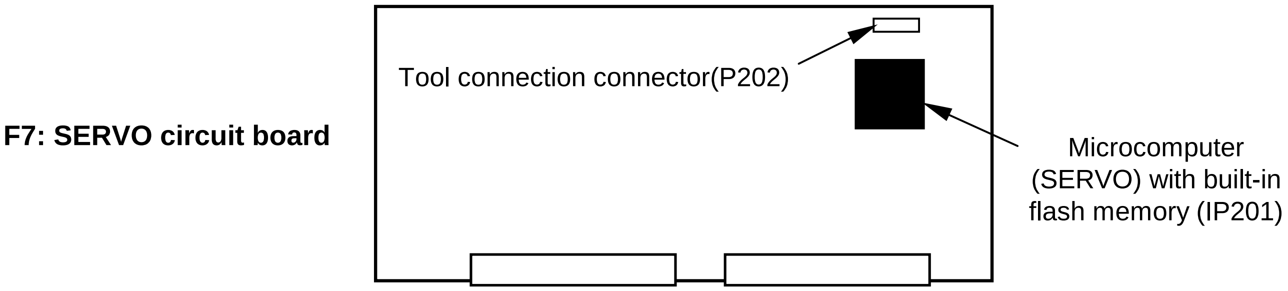
8-2. How to Read the Version Display


n 1 . 0 2
NTSC: n
PAL: p
Common: No display
Software version

9. Software Version Upgrade Method

9-1. Version Upgrade for the SERVO Microcomputer with Built-in Flash Memory

The SERVO microcomputer of the **F7: SERVO** circuit board has a built-in flash memory. For the software version up, connect the “**Flash memory version up tool (VFK1304A)**” to the tool connection connector and use the “**Servo version up software (VFK1503)**” according to the following procedure.


F7: SERVO circuit board
Tool connection connector(P202)
Microcomputer (SERVO) with built-in flash memory (IP201)

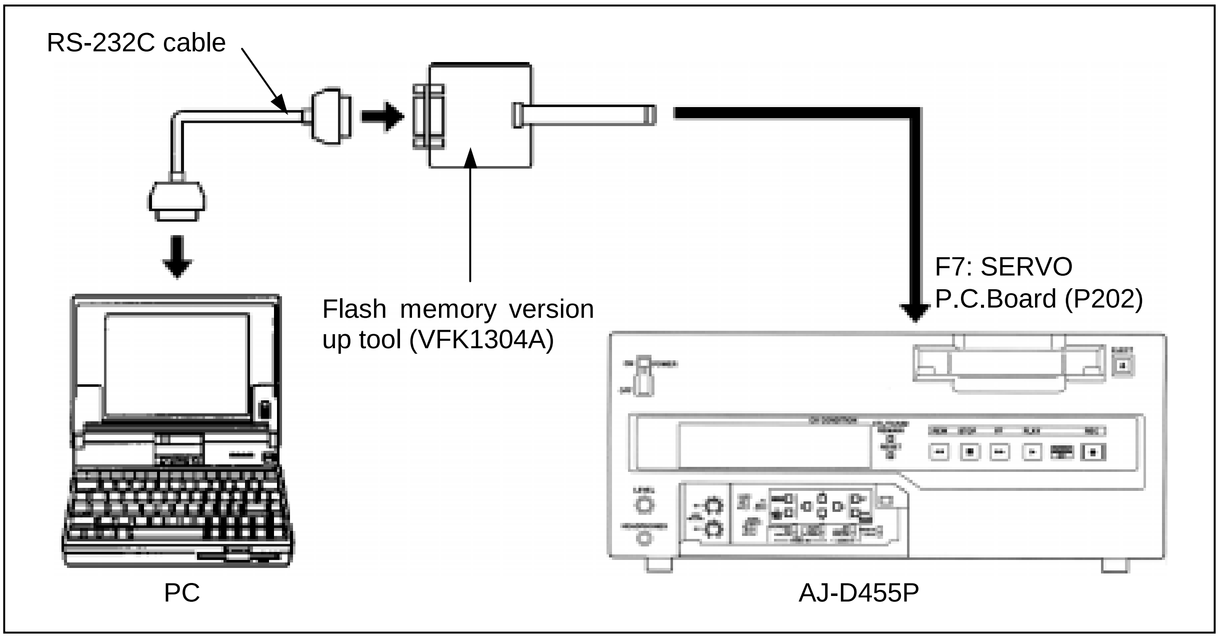
1. Prepare a personal computer (MS-DOS, Windows 95 or 98).
2. Copy the servo version up software (VFK1503) and the new servo microcomputer software into the same directory of the personal computer. (The following four types of software.)

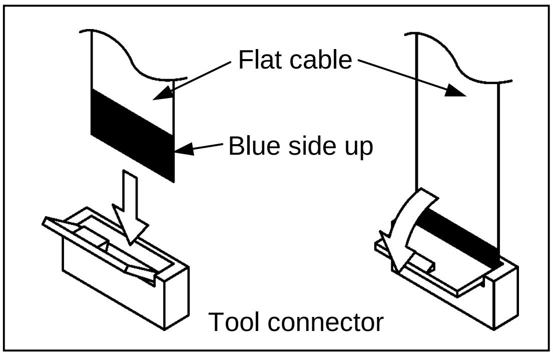
Version up software (VFK1503)	**“fw103u.exe”**
Servo microcomputer software	**“vsiXXXX.obf”** **“vsiXXXX.bat”** **“vsiXXXX.ex”**

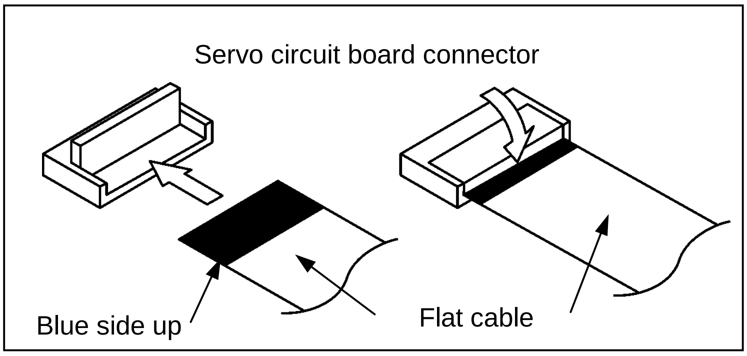
3. Confirm the switch settings for the “Flash memory version up tool (VFK1304A)”.

SW1-1: ON **SW1-3: OFF**
SW1-2: ON **SW1-4: OFF**

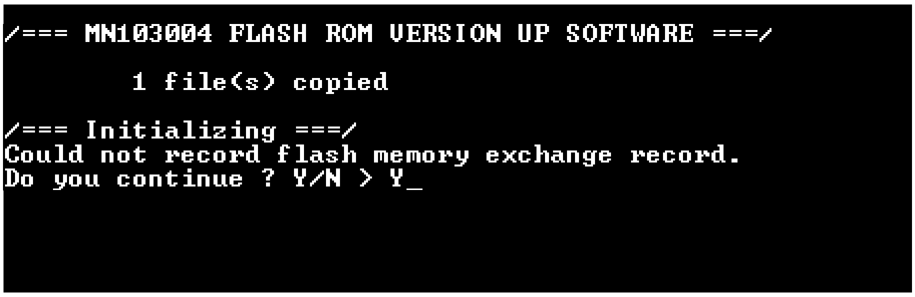
4. Connect the AJ-D455P, the “Flash memory version up tool (VFK1304A)”, and the personal computer as shown below. Pay attention not to confuse the connection direction (rear, front) for the flat cable of the tool (VFK1304A).


RS-232C cable
F7: SERVO P.C.Board (P202)
Flash memory version up tool (VFK1304A)
PC
AJ-D455P



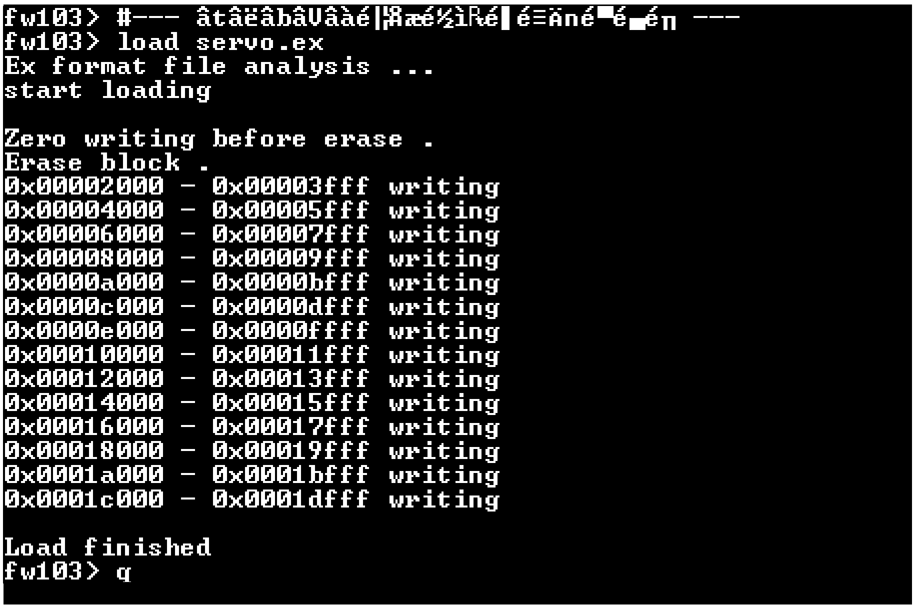


5. Turn on the AJ-D455P power.
6. Execute the “**VSIXXX.bat**” copied to the personal computer. It also can be done directly on Windows. (During execution, the file “servo.exe” will be created, but this may be left in the directory without any problems.)
7. When the following screen is displayed, enter “Y” and press “**ENTER**”. (During program writing, the progress is shown on the display of the personal computer.)



```
/=== MN103004 FLASH ROM VERSION UP SOFTWARE ===/

        1 file(s) copied

/=== Initializing ===/
Could not record flash memory exchange record.
Do you continue ? Y/N > Y_
```

8. Writing is completed when the following screen appears.



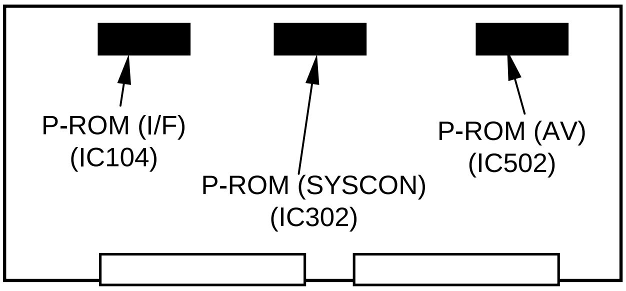
```
fw103> #--- âtâëâbâUâàé|╪æé½ìRé▌é≡Äné▀é▄éπ ---
fw103> load servo.ex
Ex format file analysis ...
start loading

Zero writing before erase .
Erase block .
0x00002000 - 0x00003fff writing
0x00004000 - 0x00005fff writing
0x00006000 - 0x00007fff writing
0x00008000 - 0x00009fff writing
0x0000a000 - 0x0000bfff writing
0x0000c000 - 0x0000dfff writing
0x0000e000 - 0x0000ffff writing
0x00010000 - 0x00011fff writing
0x00012000 - 0x00013fff writing
0x00014000 - 0x00015fff writing
0x00016000 - 0x00017fff writing
0x00018000 - 0x00019fff writing
0x0001a000 - 0x0001bfff writing
0x0001c000 - 0x0001dfff writing

Load finished
fw103> q
```

9. Turn off the AJ-D455P power and disconnect the cables connected.

9-2. E-PROM (SYSCON, IF, AV) Version Upgrade

The **F6: SYSCON** circuit board use an E-PROM (SYSCON, I/F, AV).
For the software version up, replace an E-PROM with the new version.

F6: SYSCON circuit board


P-ROM (I/F)
(IC104)
P-ROM (SYSCON)
(IC302)
P-ROM (AV)
(IC502)

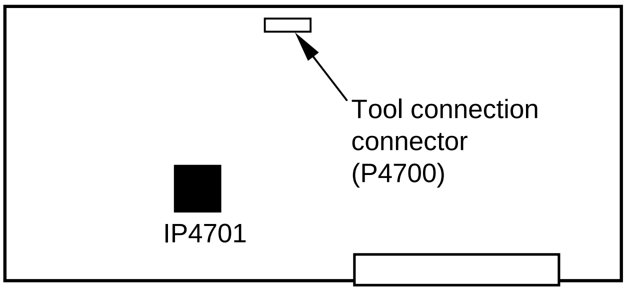
9-3. PLD Version Upgrade Procedure

The AJ-D455P uses **PLDs**. At the time of a version upgrade, use the special tool, connect the respective connection connectors, and use the PLD writing software.

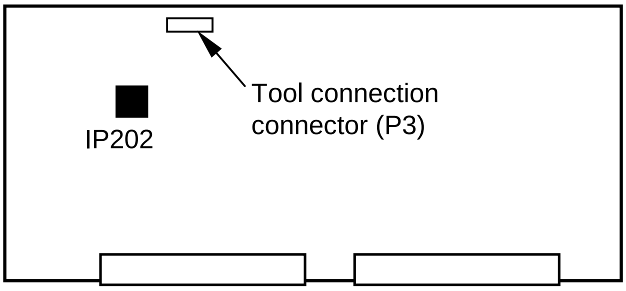
9-3-1. PLD Chart

Circuit board name	Connector	Number of pins'	PLD No.	PLD maker	Use quantity
F1: AUDIO	P4700	8P	EPM3256A1410	ALTERA	1
F2: V OUT	P3	8P	EPC2TC32	ALTERA	1
F3A: SDI (AJ-YA455P)	P3500	8P	XC1801VQ44C	XILINX	1
F4: D PROCESS	P3101	8P	EPC2TC32	ALTERA	2
F5: V IN	P3002	8P	EPC2TC32	ALTERA	1
F7: SERVO	P300	8P	EPM3256A1410	ALTERA	1

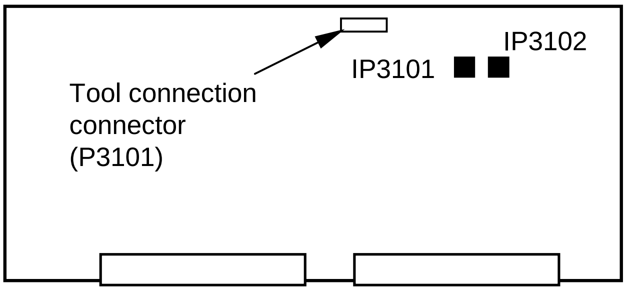
F1: AUDIO cuircuit board


Tool connection
connector
(P4700)
IP4701

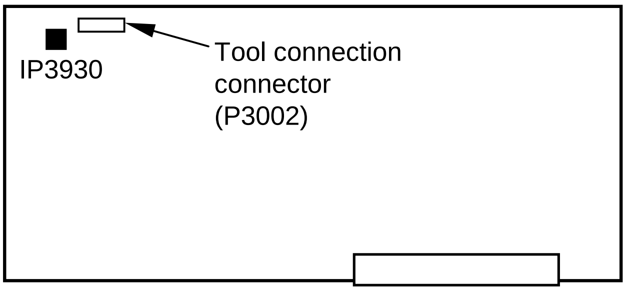
F2: V OUT circuit board


Tool connection
connector (P3)
IP202

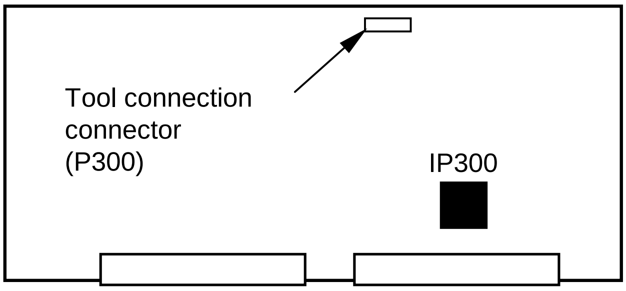
F4: DIGITAL PROCCESS circuit board (Foil side)


IP3102
IP3101
Tool connection
connector
(P3101)

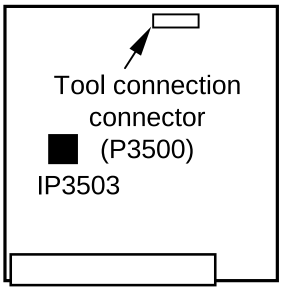
F5: V IN circuit board


IP3930
Tool connection
connector
(P3002)

F7: SERVO circuit board


Tool connection
connector
(P300)
IP300

F3A: SDI (AJ-YA455P) circuit board


Tool connection
connector
(P3500)
IP3503

9-3-2. CPLD Version up Method 1 (ALTERA)

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P2 (VFK1590 standard)
D-sub 25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	MAX+plus II Software (Please Download from www.altera.com/pub/software/asap2.exe)
Version Upgrade Data	TDF File or POF (Include in “vsi xxxx” file)
Personal Computer	WINDOWS 95® or 98®

B. Connection

1. Connect the D-sub Cable between CN201(for ALTERA) connector of the CPLD WRITER (VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P2) between connector on objective PCB and P2 connector of CPLD WRITER. (Refer to 9-3-1.Chart of PLD Writer and Figure 9-3-2.)
3. Turn on AJ-D455P and Personal Computer (Windows mode).

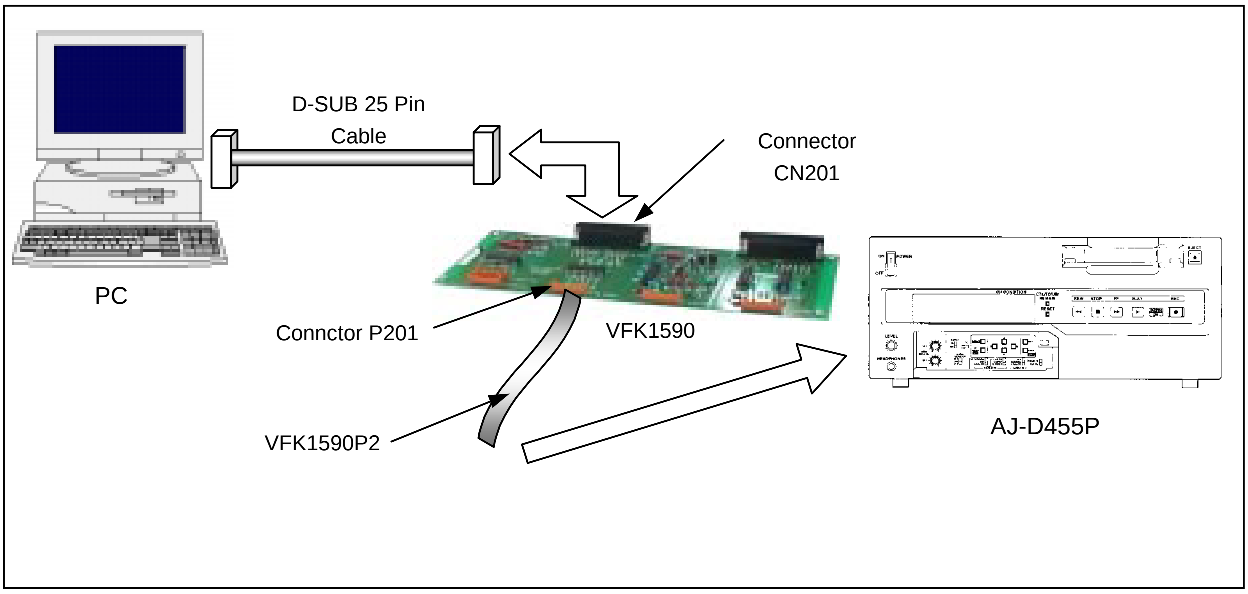
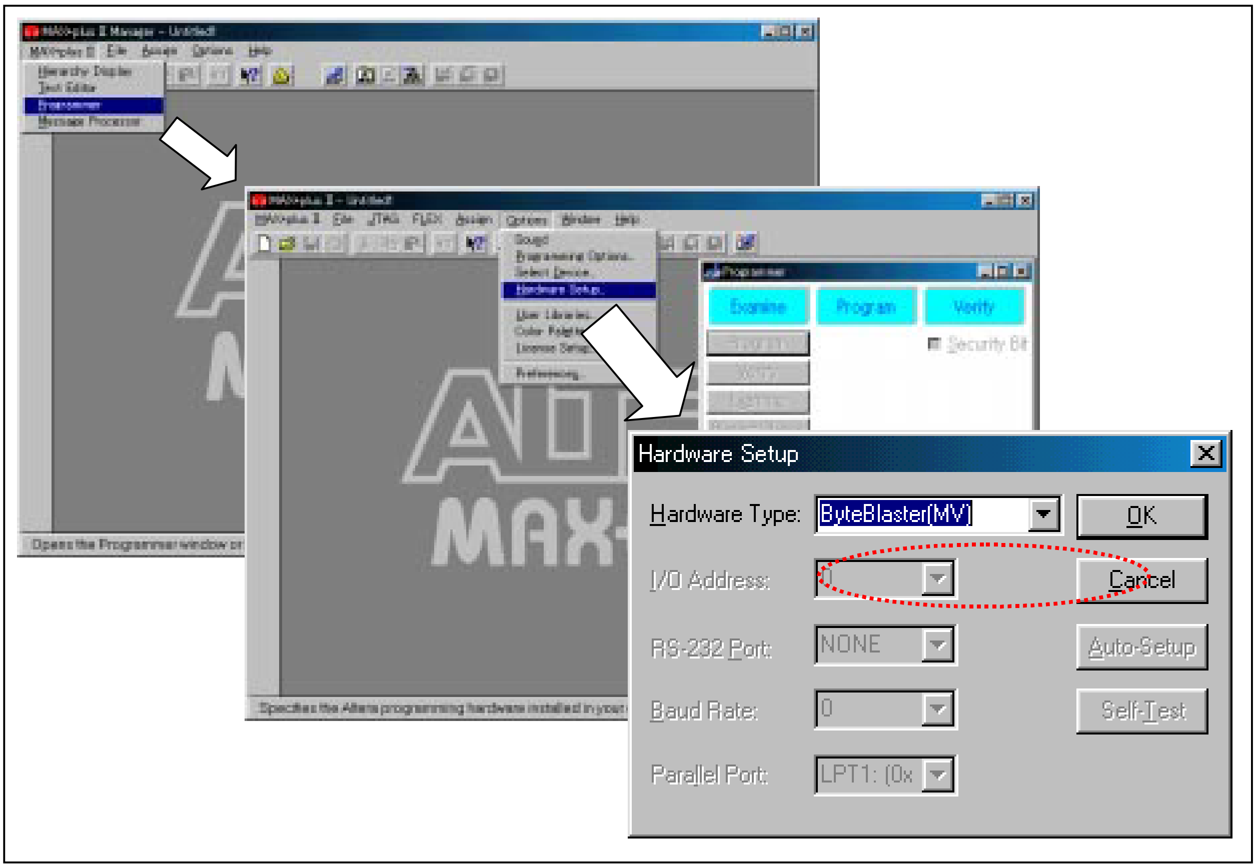


Figure 9-3-2 Connection for CPLD version up

C. Boot up the Ver. up Software and Ver. up Procedure

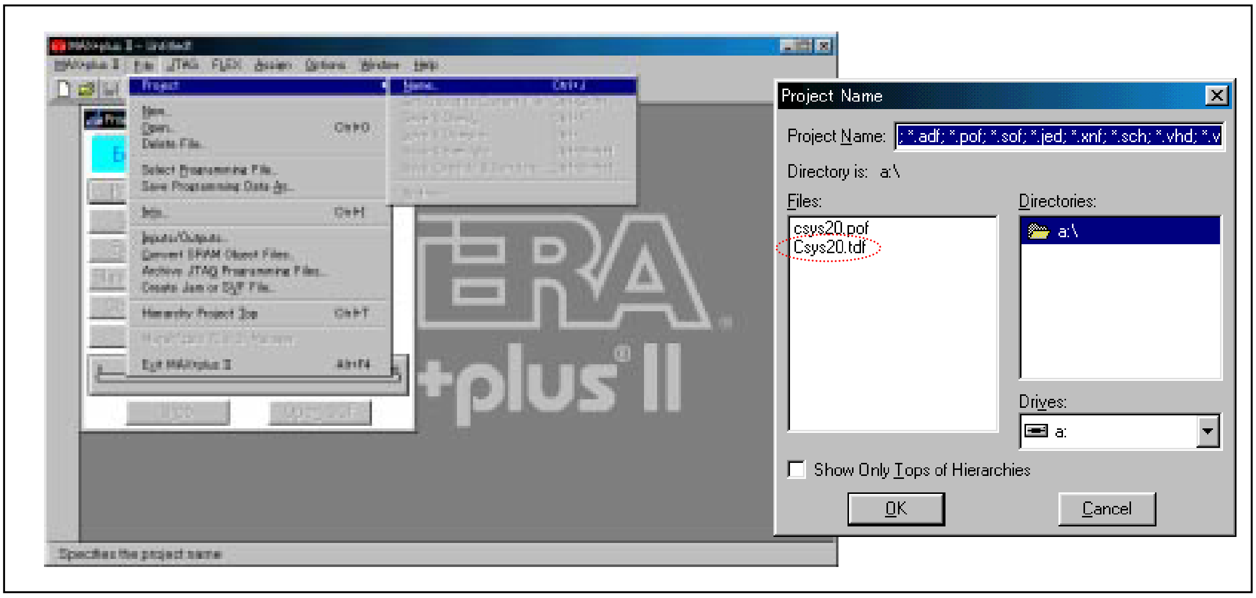
1. Boot up the **“MAX+plus II 9.6 programmer only”** Software.
2. On main window, select tab **“MAX+plus II”** and then **“Programmer”**.
3. On main window (Programmer window is displayed), select tab **“Option”** and then **“Hardware Setup”**.
4. On **Hardware Setup** dialog, set the **“Hardware Type”** to **“yte Blaster (MV) ”**.


MAX+plus II Manager - Untitled
MAX+plus II File Assign Options Help
Hierarchy Display
Text Editor
Programmer
Message Processor
Opens the Programmer window or
MAX+plus II - Untitled
MAX+plus II File JTAG FLEX Assign Options Window Help
Sound
Programming Options...
Select Device...
Hardware Setup...
User Libraries...
Color Palette...
License Setup...
Preferences...
Programmer
Examine
Program
Verify
Security Bit
Specifies the Altera programming hardware installed in your
Hardware Setup

Hardware Type: ByteBlaster(MV)
I/O Address: 0
RS-232 Port: NONE
Baud Rate: 0
Parallel Port: LPT1: (0x

OK
Cancel
Auto-Setup
Self-Test

5. On main window, select tab **“File”**, **“Project”** and then **“Name”**.
6. On dialog of **Project Name**, select the **“tdf format file”** or **“pof format file”** and then perss **“OK”** button.


MAX+plus II - Untitled
MAX+plus II File JTAG FLEX Assign Options Window Help
Project
Name... Ctrl+J
New...
Open... Ctrl+O
Delete File...
Select Programming File...
Save Programming Data As...
Info... Ctrl+I
Inputs/Outputs...
Convert SRAM Object Files...
Archive JTAG Programming Files...
Create Jam or SVF File...
Hierarchy Project Top Ctrl+T
Exit MAX+plus II Alt+F4
+plus II
Specifies the project name
Project Name

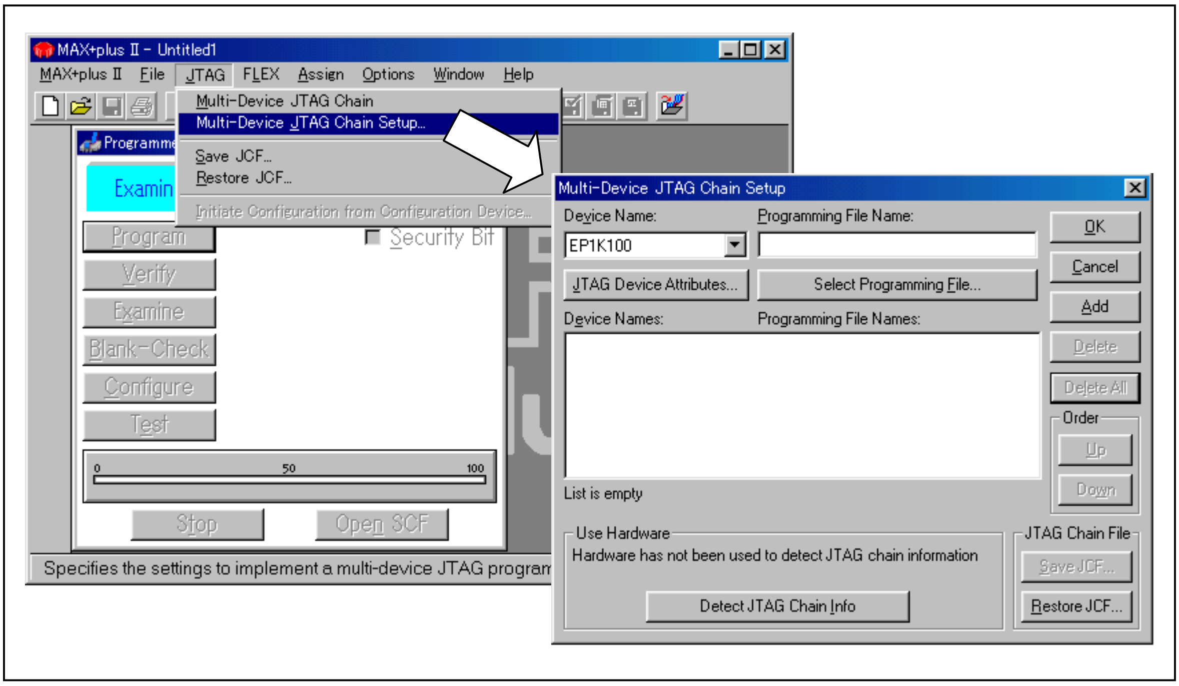
Project Name: *.adf; *.pof; *.sof; *.jed; *.xnf; *.sch; *.vhd; *.v
Directory is: a:\
Files:
csys20.pof
Csys20.tdf
Directories:
a:\
Drives: a:
☐ Show Only Tops of Hierarchies

OK
Cancel

<Reference : Creation of chain file>

Use a **"chain file (in jcf format)"** for write-operation when a PCB includes several PLDs.
If no chain file has been created, create a chain file by the following procedures. (Example of L1 PCB)

A. Select **"Multi-Device JTAG Chain Setup"** on the main screen to display the **"Multi-Device JTAG Chain Setup"** screen.


MAX+plus II - Untitled1
MAX+plus II
File
JTAG
FLEX
Assign
Options
Window
Help
Multi-Device JTAG Chain
Multi-Device JTAG Chain Setup...
Save JCF...
Restore JCF...
Initiate Configuration from Configuration Device...
Programmer
Examine
Security Bit
Program
Verify
Examine
Blank-Check
Configure
Test
0
50
100
Stop
Open SCF
Multi-Device JTAG Chain Setup
Device Name:
Programming File Name:
OK
Cancel
Add
Delete
Delete All
JTAG Device Attributes...
Select Programming File...
Device Names:
Programming File Names:
Order
Up
Down
Use Hardware
Detect JTAG Chain Info
JTAG Chain File
Save JCF...
Restore JCF...

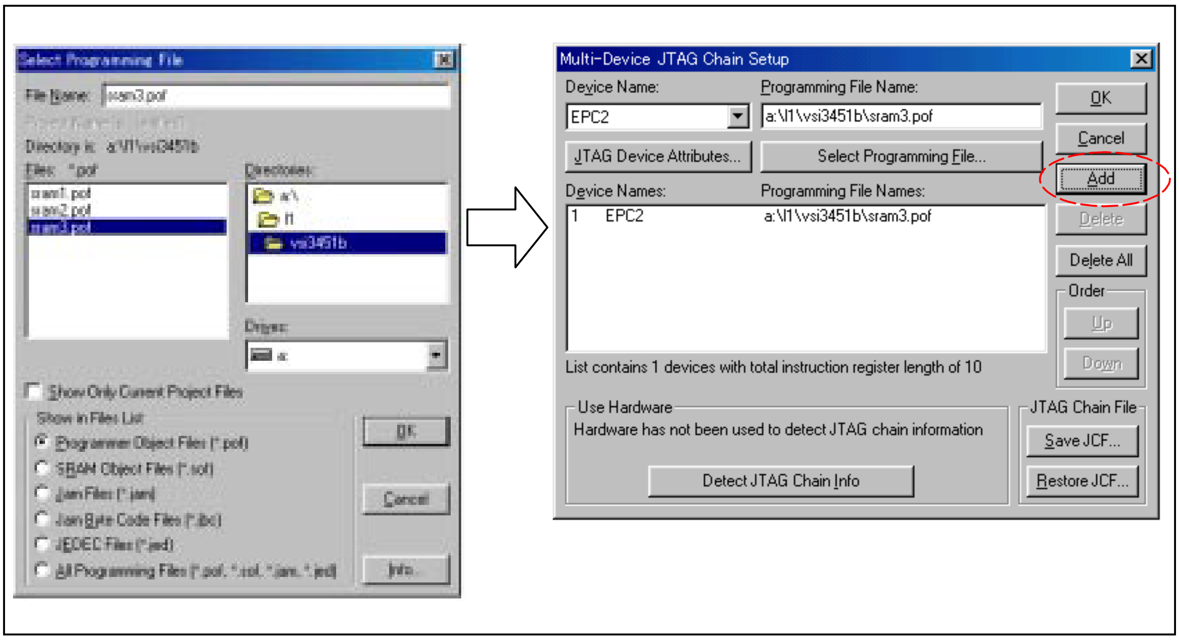
Specifies the settings to implement a multi-device JTAG program

Device Name: EP1K100

List is empty

Hardware has not been used to detect JTAG chain information

B. Click the **"Select Programming File"** button to display the **"Select Programming File"** screen. Next, select the drive which has software, and select the **"pof"** file. If three pof files can be seen as shown below, select a file in order of larger number, and click the **"OK"** button. Then, the **"Multi-Device JTAG Chain Setup"** screen is displayed.


Select Programming File
File Name:
Directory is:
Files: *.pof
Directories:
Drives:
Show Only Current Project Files
Show in Files List
Programmer Object Files (*.pof)
SRAM Object Files (*.sof)
Jam Files (*.jam)
Jam Byte Code Files (*.jbc)
JEDEC Files (*.jed)
All Programming Files (*.pof, *.sof, *.jam, *.jed)
OK
Cancel
Info...
Multi-Device JTAG Chain Setup
Device Name:
Programming File Name:
OK
Cancel
Add
Delete
Delete All
JTAG Device Attributes...
Select Programming File...
Device Names:
Programming File Names:
Order
Up
Down
Use Hardware
Detect JTAG Chain Info
JTAG Chain File
Save JCF...
Restore JCF...

File Name: sram3.pof

Directory is: a:\l1\vsi3451b

sram1.pof
sram2.pof
sram3.pof

a:\
l1
vsi3451b

Drives: a:

● Programmer Object Files (*.pof)

Device Name: EPC2

Programming File Name: a:\l1\vsi3451b\sram3.pof

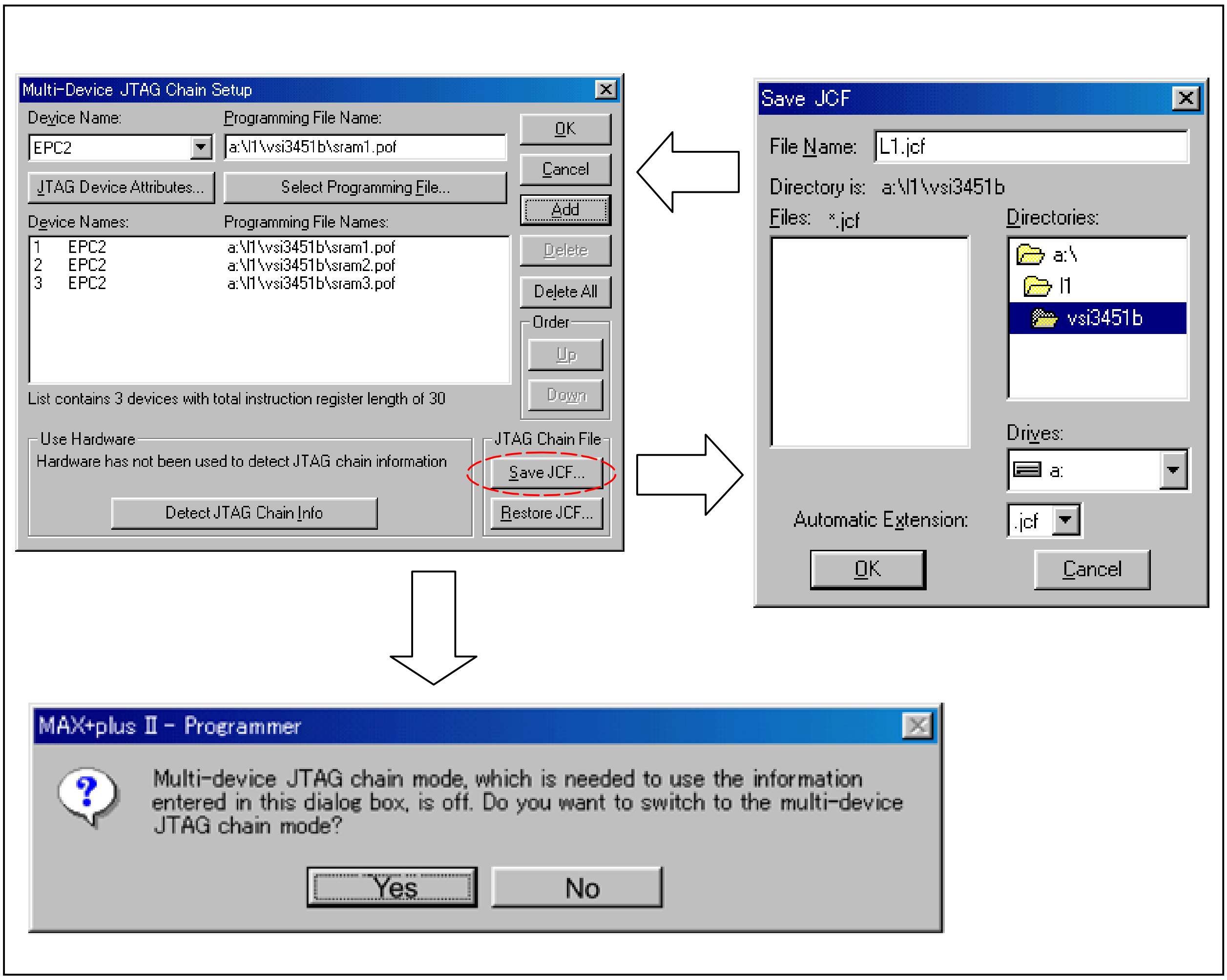
1 EPC2 a:\l1\vsi3451b\sram3.pof

List contains 1 devices with total instruction register length of 10

Hardware has not been used to detect JTAG chain information

C. Chick the **"Add"** button on the **"Multi-Device JTAG Chain Setup"** screen.

D. Repeat the steps 2 and 3 to capture the **“pof”** file.
E. Click the **“Save JCF”** button. Then, the **“Save JCF”** screen is displayed.
F. Enter a file name, and click the **“OK”** button.
G. Click the “OK” button on the **“Multi Device JTAG Chain Setup”** screen. Then, the following message is displayed : Multi-device JTAG chain mode, which is needed to use the information entered in this dialog box, is off. Do you want to switch to the multi-device JTAG chain mode ?
When this message is displayed, click **“YES”**.


Multi-Device JTAG Chain Setup

Device Name: EPC2

Programming File Name: a:\l1\vsi3451b\sram1.pof

Device Names:		Programming File Names:
1	EPC2	a:\l1\vsi3451b\sram1.pof
2	EPC2	a:\l1\vsi3451b\sram2.pof
3	EPC2	a:\l1\vsi3451b\sram3.pof

List contains 3 devices with total instruction register length of 30

Use Hardware: Hardware has not been used to detect JTAG chain information

Save JCF

File Name: L1.jcf

Directory is: a:\l1\vsi3451b

Files: *.jcf

Directories: a:\ l1 vsi3451b

Drives: a:

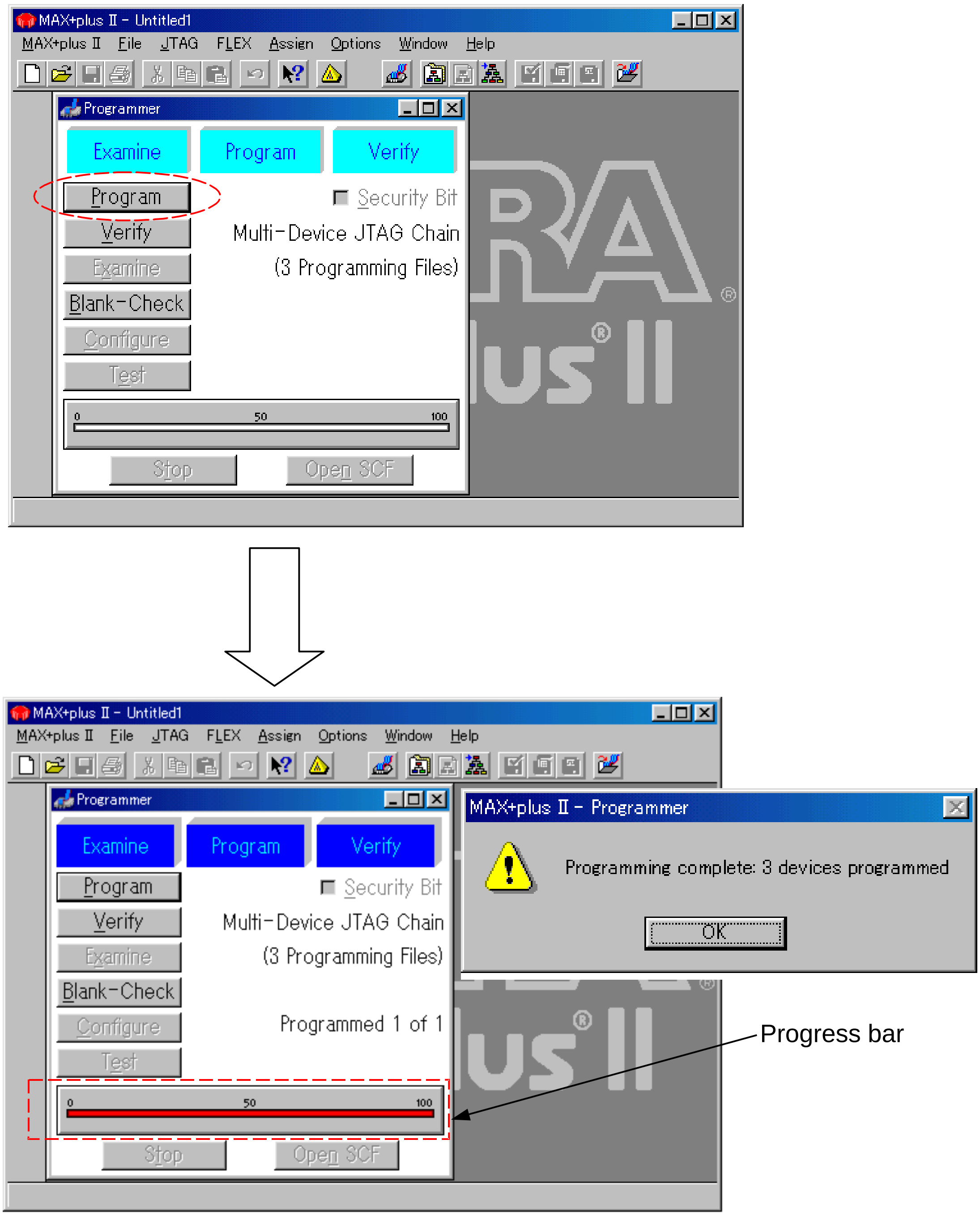
Automatic Extension: .jcf

MAX+plus II - Programmer

Multi-device JTAG chain mode, which is needed to use the information entered in this dialog box, is off. Do you want to switch to the multi-device JTAG chain mode?

OK
Cancel
Add
Delete
Delete All
Order
Up
Down
JTAG Device Attributes...
Select Programming File...
JTAG Chain File
Save JCF...
Restore JCF...
Detect JTAG Chain Info
OK
Cancel
Yes
No

7. Click the **“Program”** button on Programmer dialog.
8. When Progress Bar reaches at point of **100**, the message “Programming Complete” appears, then PLD version upgrade is completed. Click **“OK”** button on the **Programming complete** message Dialog.


MAX+plus II - Untitled1
MAX+plus II File JTAG FLEX Assign Options Window Help
Programmer
Examine
Program
Verify
Program
Verify
Examine
Blank-Check
Configure
Test
☐ Security Bit
0
50
100
Stop
Open SCF
MAX+plus II - Programmer
OK
Progress bar

Multi-Device JTAG Chain
(3 Programming Files)

Programmed 1 of 1

Programming complete: 3 devices programmed

* MAX+PLUS are registered tradmarks of Altera Corporation.
* Windows95 and Windows98 are registered tradmarks of Microsoft Corporation.

9-3-3. PLD Version up Method 2 (XILINX)

A. Preparation

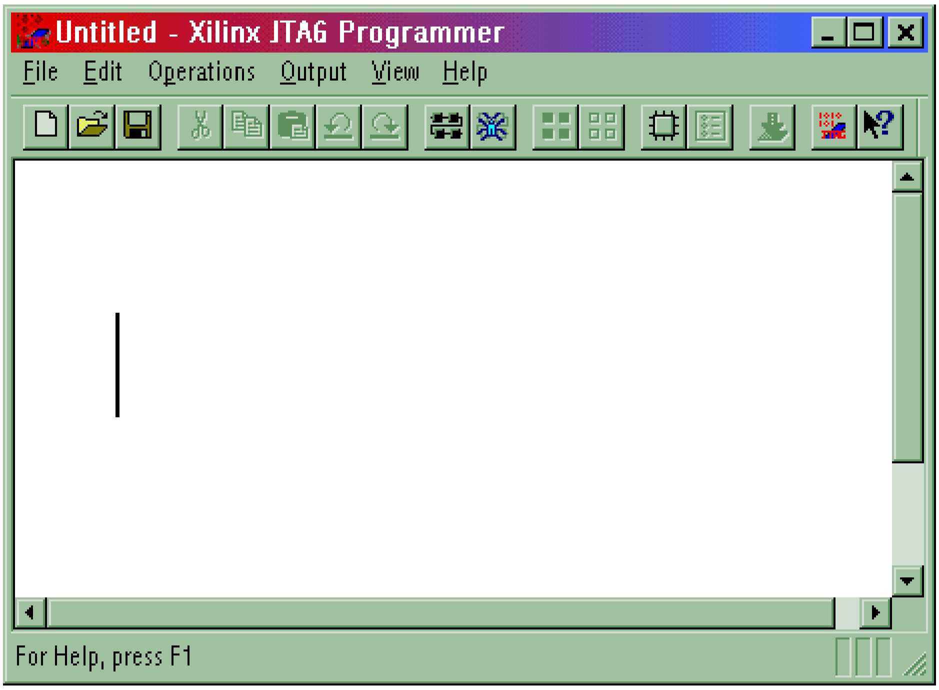
ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	JTAG Programmer Software (Please Download from www.xilinx.com)
Version Upgrade Data	cdf File (Include in VSI**** file)
Personal Computer	WINDOWS 95® or 98®

B. Connection

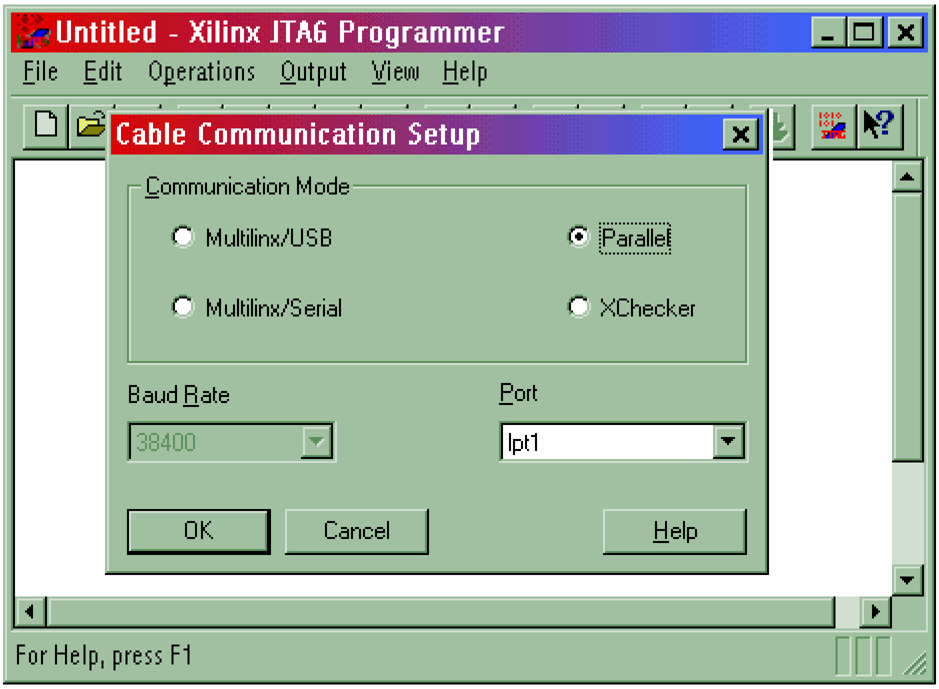
1. Connect the D-sub Cable between CN401(for XILINX) connector of the CPLD WRITER(VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P4) between connector on objective PCB and P4 connector of CPLD WRITER. (Refer to 9-3-1.Chart of PLD Writer and Figure 9-3-2.)
3. Turn on AJ-D455P and Personal Computer (Windows mode).

C. Boot up the Ver. Up Software and Ver. up Procedure

1. After download the program, **"Xilinx CPLD Webpack"** folder is created on windows. Click the start button of windows program **"Xilinx CPLD Webpack"**, then Device Program is boot up and following screen apperaes.



2. Click **“OUTPUT”** on the menu bar and select **“Parralle”** for **“Cable Communication Setup”** (default port is **“lpt1”**).


Untitled - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
Cable Communication Setup
OK
Cancel
Help
For Help, press F1

Communication Mode

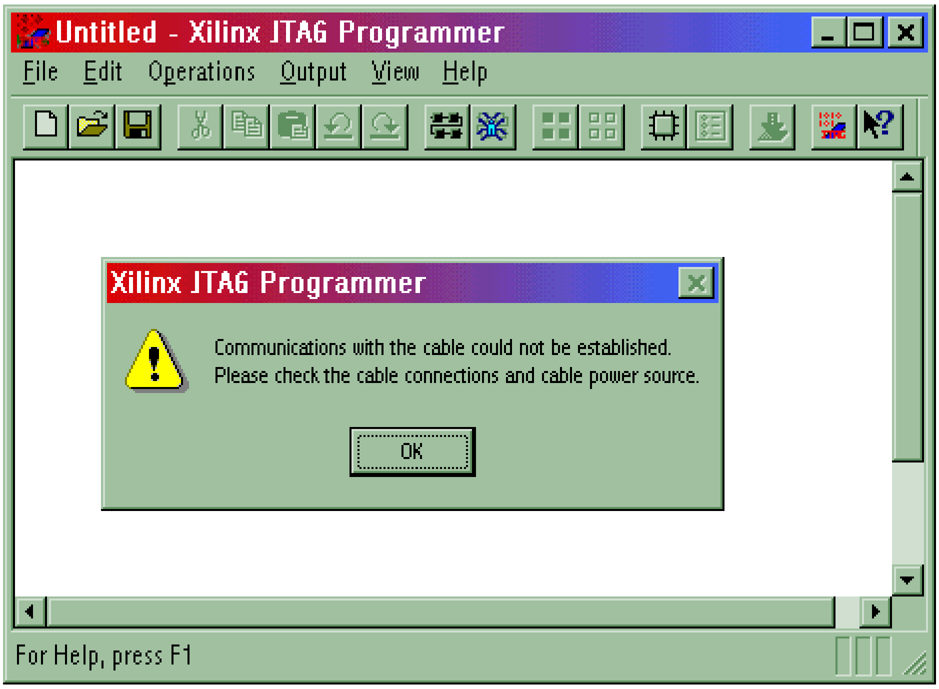
○ Multilinx/USB ● Parallel

○ Multilinx/Serial ○ XChecker

Baud Rate: 38400

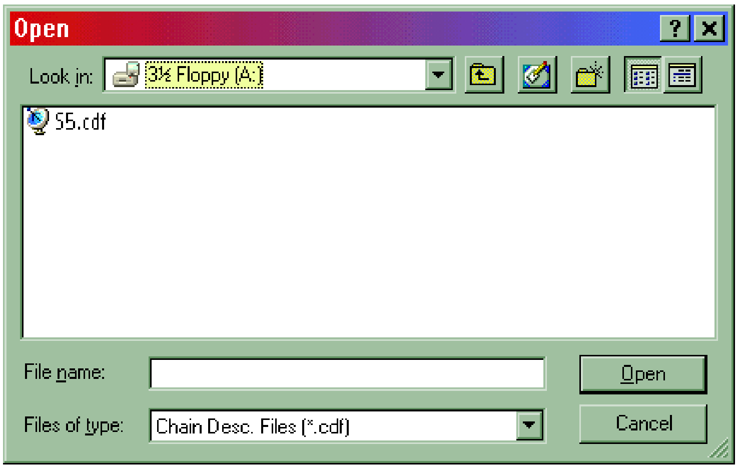
Port: lpt1

3. If connection is correct, following message appears.

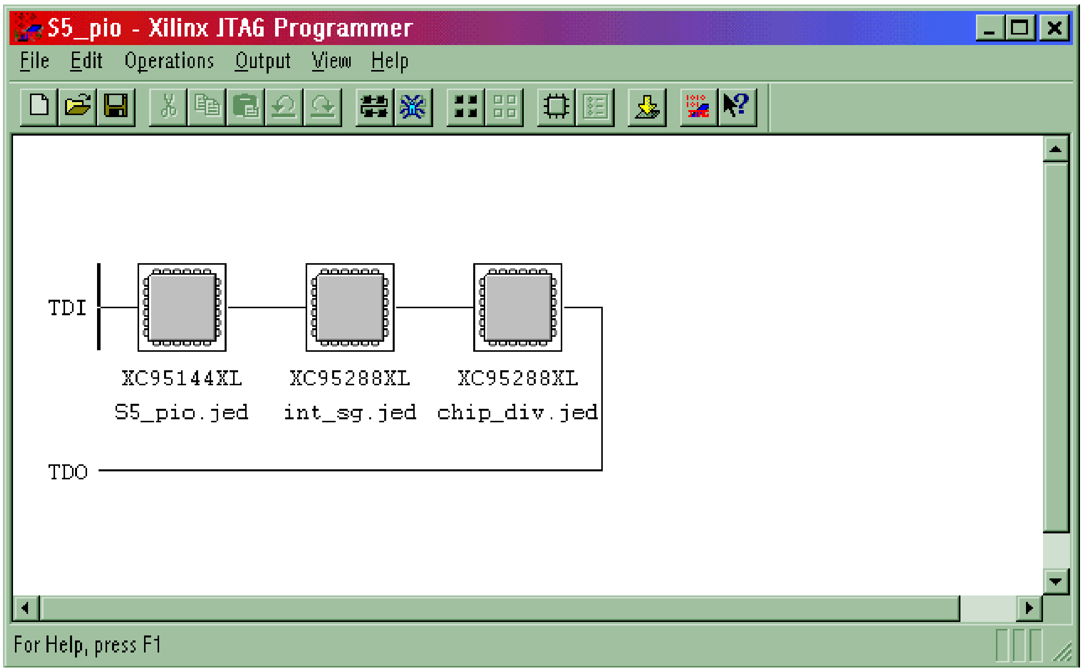

Untitled - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
Xilinx JTAG Programmer
OK
For Help, press F1

Communications with the cable could not be established.
Please check the cable connections and cable power source.

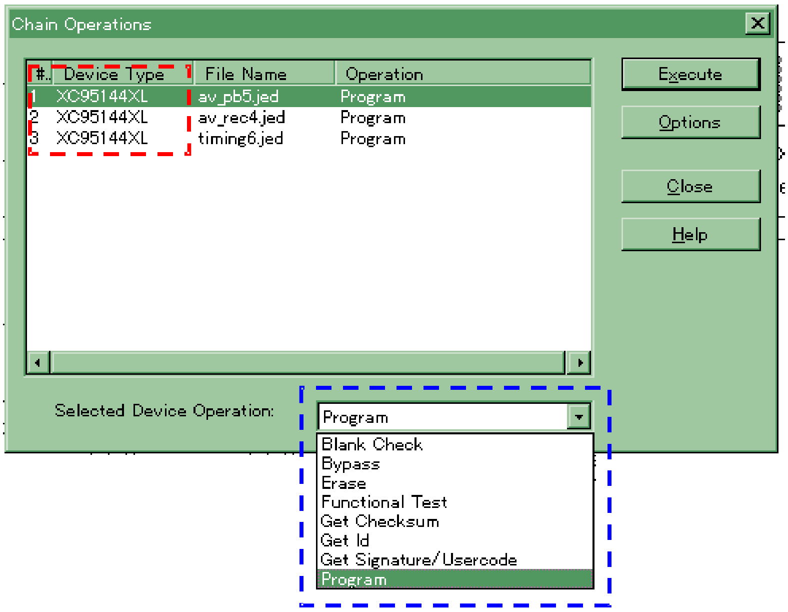
4. Click **“OK”** button.
5. Insert the floppy disk for version up data into A drive.
6. Open the target file. This file called Disk file, because one file can write serveral CPLDs like a chain.


Open
Look in:
3½ Floppy (A:)
S5.cdf
File name:
Files of type:
Chain Desc. Files (*.cdf)
Open
Cancel

7. Click **"Open"** button, then following screen appears.


S5_pio - Xilinx JTAG Programmer
File
Edit
Operations
Output
View
Help
TDI
XC95144XL
S5_pio.jed
XC95288XL
int_sg.jed
XC95288XL
chip_div.jed
TDO
For Help, press F1

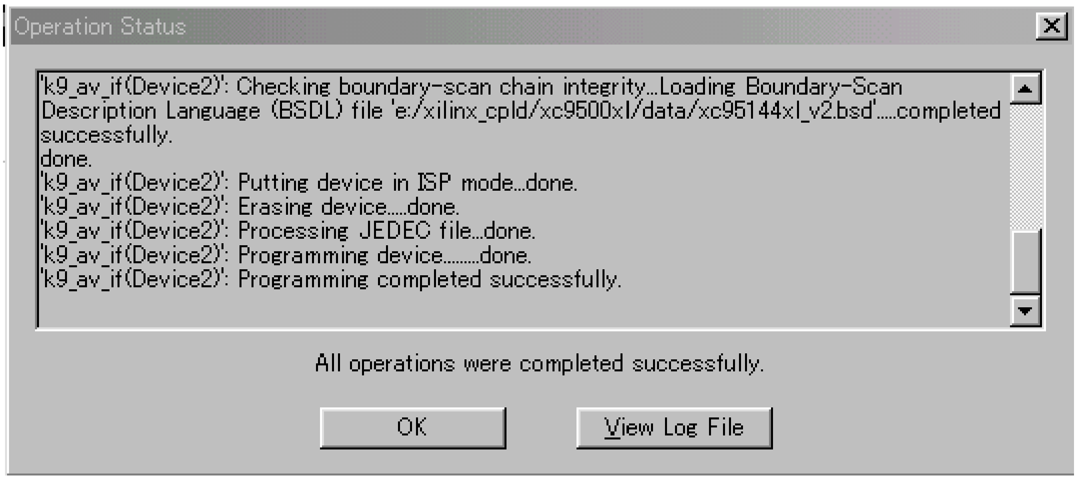
8. Then click **"Operations"** on menu bar and select **"Chain Operation"**. Then following screen appears.
9. Select the divice from the **"Device Type"** column on the Chain Operation Window.
   Click the **"Selected Device Operation"** and select **"Program"**.
   Perform this procedure to all devices.


Chain Operations
Execute
Options
Close
Help
Blank Check
Bypass
Erase
Functional Test
Get Checksum
Get Id
Get Signature/Usercode
Program

#.	Device Type	File Name	Operation
1	XC95144XL	av_pb5.jed	Program
2	XC95144XL	av_rec4.jed	Program
3	XC95144XL	timing6.jed	Program

Selected Device Operation: Program

10. Click **“Execute”** button.
11. When the following screen with the message of **“All operation were completed successfully.”** appears, data writing is completd.



```
'k9_av_if(Device2)': Checking boundary-scan chain integrity...Loading Boundary-Scan
Description Language (BSDL) file 'e:/xilinx_cpld/xc9500xl/data/xc95144xl_v2.bsd'.....completed
successfully.
done.
'k9_av_if(Device2)': Putting device in ISP mode...done.
'k9_av_if(Device2)': Erasing device.....done.
'k9_av_if(Device2)': Processing JEDEC file...done.
'k9_av_if(Device2)': Programming device.........done.
'k9_av_if(Device2)': Programming completed successfully.
```

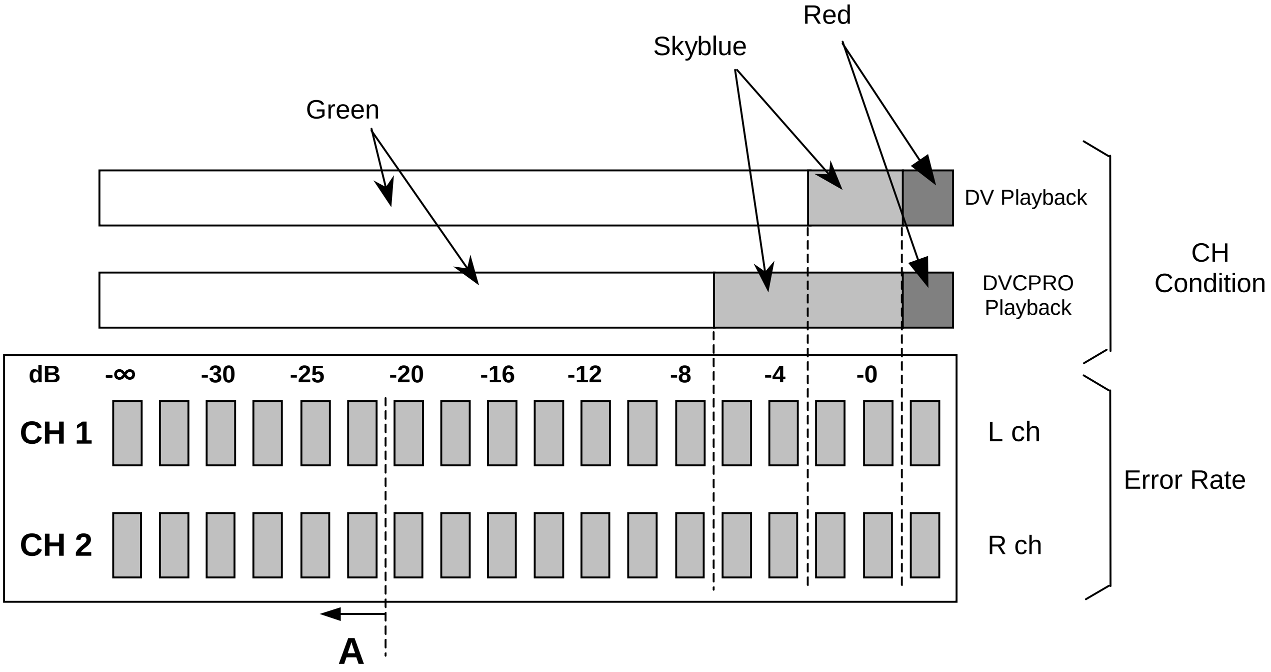
All operations were completed successfully.

10. Error Rate Display and Confirmation Method

The error rate is displayed on the AUDIO LEVEL METER in Service mode. (When enters in Service menu mode, the AUDIO LEVEL METER changes into the error display mode automatically.)

The error rate of the head selected for the setting of **“B00: RF ADJUST”** in the service menu.
While the **DVCPRO** is played back, the selection is possible when **“C45 PB HEAD”** is selected.
While the **DV** is played back, the selection is possible when **“D45 PB HEAD”** is selected.

Whenever the **“DIAG”** button is pressed, switching between **“AUDIO” and “VIDEO”** is possible.
While the **CH1** is lit up, **“AUDIO”** is displayed.
While the **CH2** is lit up, **“VIDEO”** is displayed.


Red
Skyblue
Green
DV Playback
DVCPRO Playback
CH Condition
dB
-∞
-30
-25
-20
-16
-12
-8
-4
-0
CH 1
CH 2
L ch
R ch
Error Rate
A

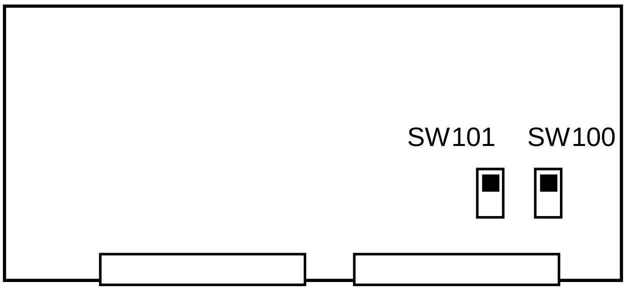
11. Internal Switch Setting Method

The switches setting on each circuit board are shown below.

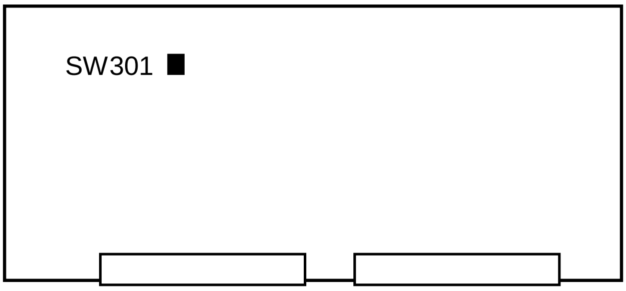
The switches **“Factory use only”** must be set to the **“factory setting”**.

BOARD	Ref. No.	SW	FACTORY SETTING	FEATURE
F1: AUDIO	SW4100	-	HIGH	Audio input inpedance setting (600Ω/ HIGH)
	SW4101	-	HIGH	Audio input inpedance setting (600Ω/ HIGH)
F6: SYSCON	SW301	1	OFF	Factory use only
		2	OFF	Factory use only

F1: AUDIO circuit board



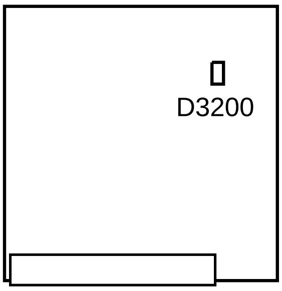
F6: SYSCON circuit board



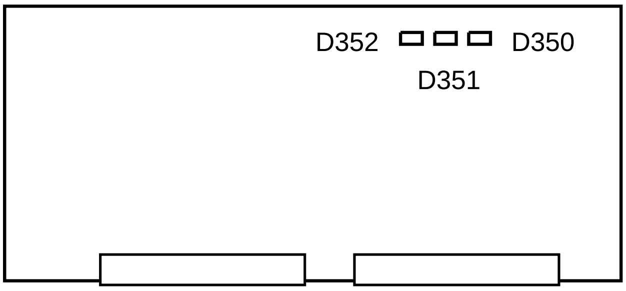
12. Internal LED Indication

BOARD	Ref. No.	FEATURE
F3A: SDI (AJ-YA455P)	D3200	For SDI input detection (light with SDI input/not light with no input)
F7: SERVO	D350	Capstan servo lock: Light with lock/not light with unlock
	D351	Cylinder servo lock: Light with lock/not light with unlock
	D352	For servo microcomputer operation confirmation (flashing with a operating)

F3A: SDI (AJ-YA455P) circuit board



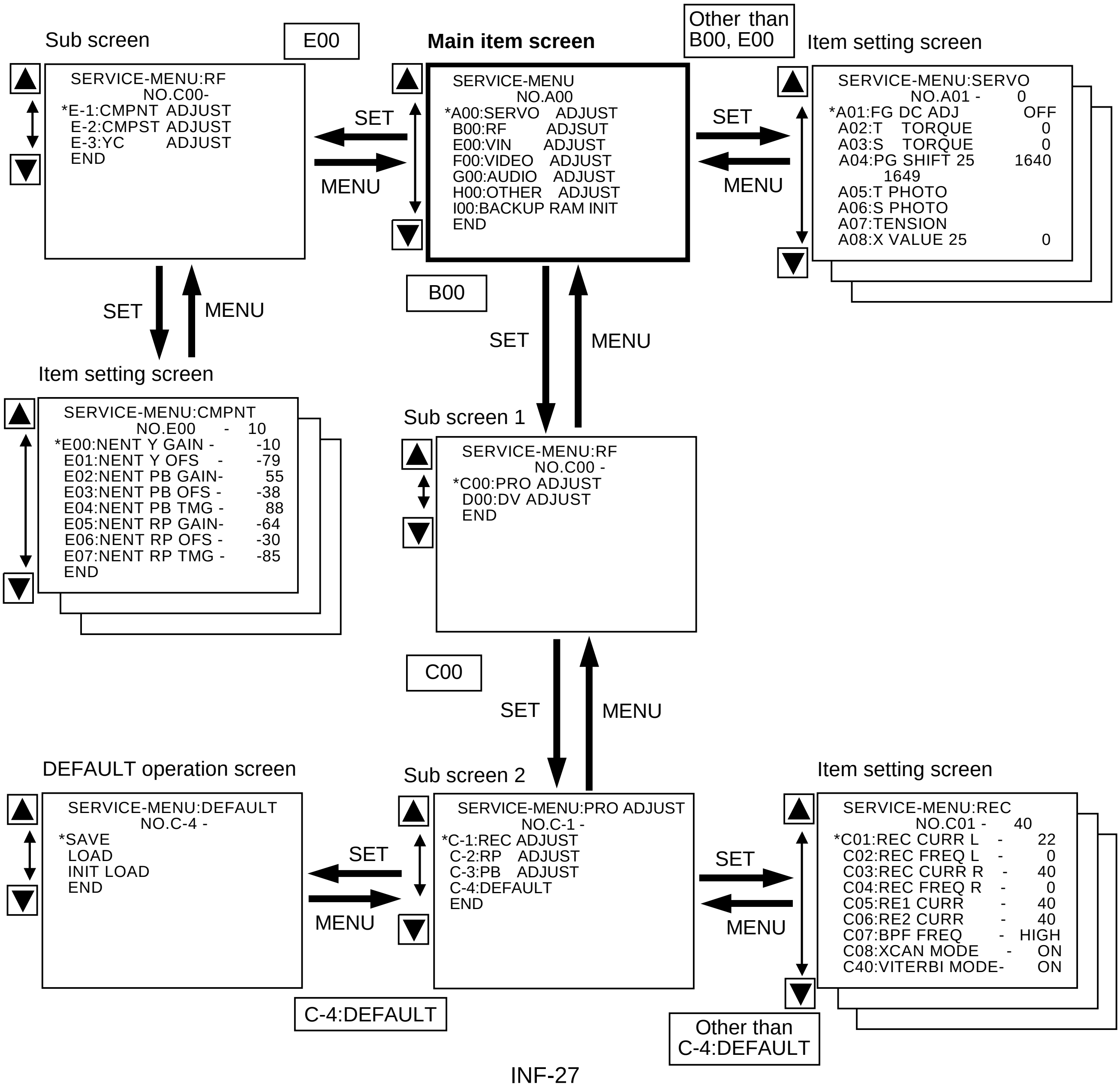
F7: SERVO circuit board



13. Service Menu

13-1. Service Menu Operation Method

1. Confirm that the **“REMOTE/LOCAL”** switch on the front panel is set to the **“LOCAL”**.
2. Press the **“MENU”** button on the front panel to display the **“SETUP-MENU”**.
3. When the **“SETUP-MENU”** is displayed, press the **“MENU”** button while pressing the **“EJECT”** button and the **“STOP”** button. Then, the **“SERVICE-MENU”** is displayed.
4. Move the cursor “*” with the “▲” **and** “▼” buttons to select any main item among items from A00 to I00.
5. If any of main items **(A00, F00, G00, H00, I00)** other than the RF adjustment **(B00)** and the V IN adjustment **(E00)** is selected, the item setting screen of the selected main item is displayed by pressing the **“SET”** button on the front panel.
6. For the RF adjustment **(B00)** and the V IN adjustment **(E00)**, select the item on the **Sub Screen**, and then, press the **“SET”** button. Then, the item setting screen of the selected item is displayed.
7. For both of the RF adjustment and the V IN adjustment, the previous screen can be displayed with the **“MENU”** button.
8. The settings can be altered on the item setting screen by moving the cursor “*” with the “▲” **and** “▼” buttons. Settings can be altered by pressing the “◀” **and** “▶” buttons. (Setting and operating procedures may be different depending on the selected item. Refer to the details of the service menu.)


Sub screen
E00
Main item screen
Other than B00, E00
Item setting screen
SET
MENU
SET
MENU
SET
MENU
B00
SET
MENU
Item setting screen
Sub screen 1
C00
SET
MENU
DEFAULT operation screen
Sub screen 2
Item setting screen
SET
MENU
SET
MENU
C-4:DEFAULT
Other than C-4:DEFAULT

```
 SERVICE-MENU:RF
          NO.C00-
*E-1:CMPNT ADJUST
 E-2:CMPST ADJUST
 E-3:YC    ADJUST
 END
```

```
 SERVICE-MENU
          NO.A00
*A00:SERVO   ADJUST
 B00:RF      ADJSUT
 E00:VIN     ADJUST
 F00:VIDEO   ADJUST
 G00:AUDIO   ADJUST
 H00:OTHER   ADJUST
 I00:BACKUP RAM INIT
 END
```

```
 SERVICE-MENU:SERVO
           NO.A01 -     0
*A01:FG DC ADJ        OFF
 A02:T   TORQUE         0
 A03:S   TORQUE         0
 A04:PG SHIFT 25     1640
      1649
 A05:T PHOTO
 A06:S PHOTO
 A07:TENSION
 A08:X VALUE 25         0
```

```
 SERVICE-MENU:CMPNT
          NO.E00    -   10
*E00:NENT Y GAIN -     -10
 E01:NENT Y OFS   -    -79
 E02:NENT PB GAIN-      55
 E03:NENT PB OFS -     -38
 E04:NENT PB TMG -      88
 E05:NENT RP GAIN-     -64
 E06:NENT RP OFS -     -30
 E07:NENT RP TMG -     -85
 END
```

```
 SERVICE-MENU:RF
          NO.C00 -
*C00:PRO ADJUST
 D00:DV ADJUST
 END
```

```
 SERVICE-MENU:DEFAULT
          NO.C-4 -
*SAVE
 LOAD
 INIT LOAD
 END
```

```
 SERVICE-MENU:PRO ADJUST
          NO.C-1 -
*C-1:REC ADJUST
 C-2:RP   ADJUST
 C-3:PB   ADJUST
 C-4:DEFAULT
 END
```

```
 SERVICE-MENU:REC
          NO.C01 -    40
*C01:REC CURR L  -    22
 C02:REC FREQ L  -     0
 C03:REC CURR R   -   40
 C04:REC FREQ R  -     0
 C05:RE1 CURR     -   40
 C06:RE2 CURR     -   40
 C07:BPF FREQ    -  HIGH
 C08:XCAN MODE    -   ON
 C40:VITERBI MODE-    ON
```

13-2. DEFAULT Operation

13-2-1. RF adjustment (B00)

In the RF adjustment, it is possible to save the set values to an area different from the back up area for the present set valng. The saved setting can be loaded as the present setting. This operation is effective only after the loading is completed.

*** Operating procedures**

1. Move the cursor **"*"** onto the **"C-4 : DEFAULT"**.
2. Press the **"SET"** button on the front panel.
3. Press the **"▲"** and **"▼"** buttons to move the cursor **"*"** onto the objective item.

   SAVE : The present setting can be saved as the backup value.

   LOAD : The saved backup value can be loaded as the current setting.
   (If the SAVE operation has not been carried out, the initial value will be loaded.)

4. Press the **"SET"** button on the front panel. Then, the selected operation is carried out, and then, the item setting screen is displayed again. When the **"MENU"** button is pressed, the item setting screen is displayed again without any operation carried out.

13-3. Service Menu Contents

A00: SERVO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
A01	FG DC ADJ	0 1 2 3 4 5	OFF OK CAP NG SRL NG TRL NG	Automatic adjustment of the DC offset of the capstan, S/T-Reel FG. This shall be done is in EJECT condition. Operation: 1. The following operation will start when the ← or → button is pressed. 1) S/T-brake OFF 2) Capstan, S/T-Reel is rotation 3) DC offset automatic adjustment will start 2. When the message “OK” appears, adjustment is completed. 3. Release the ← or → button If the following messages are displayed, the adjustment is faulty. CAP-NG Capstan FG adjustment NG SRL-NG S-Reel FG adjustment NG TRL-NG T-Reel FG adjustment NG	Yes	
A02	RL GAIN ADJ	T REEL 0 | 100 | 255 S REEL 0 | 100 | 255	 0 | 100 | 255 0 | 100 | 255	Automatic adjustment of the reel torque of the S/T-Reel. Operation: This shall be done is in EJECT condition. 1. Switch to PLAY mode. 2. Keep pressing the ← or → button. The set value indication will go out and automatic adjustment will start. 3. When the set value is displayed, adjustment is completed. Release the ← or → button.	Yes	
A03	T TORQUE	-128 | 0 | 127	-128 | 0 | 127	Compensation of the T-reel driver offset value This shall be done in EJECT condition. Operation: 1. The following operations will start when the ← or → button is pressed. 1) T-brake OFF 2) Cylinder rotation 3) Loading to the loading completion position 2. Set the value with the search dial. 3. Release the ← or → button when setting is completed. 1) Unloading to the unloading completion position 2) Cylinder stop 3) T-brake ON	Yes	
A04	S TORQUE	-128 | 0 | 127	-128 | 0 | 127	Compensation of the S-reel driver offset value This shall be done in EJECT condition. Operation: 1. The following operations will start when the ← or → button is pressed. 1) S-brake OFF 2) Cylinder rotation 3) Loading to the loading completion position 2. Set the value with the search dial. 3. Release the ← or → button when setting is completed. 1) Unloading to the unloading completion position 2) Cylinder stop 3) S-brake ON	Yes	
A05	PG SHIFT 25	RISE 0 | 1649 | 4095 FALL 0 | 1645 | 4095	 0 | 1649 | 4095 0 | 1645 | 4095	Alignment tape is used for PG mono-multi automatic adjustment. Operation: 1. Switch to PLAY mode. 2. Keep pressing the ← or → button. The set value indication will go out and automatic adjustment will start. 3. When the set value is displayed, adjustment is completed. Release the ← or → button.	Yes	

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
A06	T PHOTO		Voltage value 0.0V | 3.3V	Indication of the detection voltage of the photo sensor for beginning and end detection on the T-side This is used for adjustment of the sensitivity of the photosensor. Operation 1. Switch to EJECT mode. 2. Select the item. 3. The voltage value will be displayed. 4. Insert the cassette for sensitivity adjustment. Stop will be performed at the cassette DOWN position. 5. Adjust the sensitivity with the VR on the MECHA_IF. 6. The cassette will be ejected when the cursor is moved to an item other than A05: T PHOTO or A06: S PHOTO.	No	
A07	S PHOTO		Voltage value 0.0V | 3.3V	Indication of the detection voltage of the photo sensor for beginning and end detection on the S-side This is used for adjustment of the sensitivity of the photosensor. Operation: 1. Switch to EJECT mode. 2. Select the item. 3. The voltage value will be displayed. 4. Insert a cassette for sensitivity adjustment. The cassette will stop at the DOWN position. 5. Adjust the sensitivity with the VR on the MECHA_IF. 6. The cassette will be ejected when the cursor is moved to an item other than A05: T PHOTO or A06: S PHOTO.	No	
A08	TENSION	0 1	Non-display ON	Loading operation for tension offset adjustment Operation: 1. Switch to EJECT mode. 2. Switch the set value to ON. Loading will be performed to the loading completion position. 3. Unloading will be performed when the set value is switched to OFF or when the cursor is moved to another item.	No	
A09	X VALUE 25	-128 | 0 | 127	-128 | 0 | 127	Electrical fine adjustment of the X-value Operation: 1. Switch to PLAY mode. 2. Keep pressing the ← and → button. The set value display will go out and automatic adjustment will start. 3. Adjustment is completed when the set value is displayed. Release the ← and → button.	Yes	
A10	PB GAIN 25	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the PB head	Yes	
A11	PB LIN 25	0 1	Non-display ON	Adjustment of the LISTA linearity of the PB head	No	
A12	RP GAIN 25	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the PBR head	Yes	
A13	RP LIN 25	0 1	Non-display ON	Adjustment of the LISTA linearity of the RP head	No	
A14	RP GAIN DV	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the RP head (For DV, this can work only when a DV cassette is inserted.)	Yes	
A15	RP LIN DV	0 1	Non-display ON	Adjustment of the LISTA linearity of the RP head (For DV, this can work only when a DV cassette is inserted.)	No	
A16	TRK VAL 25	-128 | 0 | 127	-128 | 0 | 127	Set the CTL tracking offset value.	No	
A17	REC DATA SEL	0 1	NORMAL CW	Select the Rec data 0: NORMAL DATA 1: CW signal	No	

B00: RF ADJUST

RF ADJUST has a subscreen composition, and there is a hierarchical structure for each format.

RF ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
C00	PRO ADJUST	Adjustment for DVCPRO (25 Mbps)
D00	DV ADJUST	Adjustment for DV • Insert a DV cassette for adjustment.

C: RRO ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
C-1	REC ADJUST	Adjustment of the recording system for DVCPRO (25 Mbps)
C-2	RP ADJUST	Adjustment of the playback system (RP head) for DVCPRO (25 Mbps)
C-3	PB ADJUST	Adjustment of the playback system (PB head) for DVCPRO (25 Mbps)
C-4	DEFAULT	LOAD/SAVE of the factory default adjustment values/initial values LOAD operation • Perform operation in regard to the adjustment values for DVCPRO (25 Mbps). • Operation is effective only after completion of loading. Operation: 1. Move the cursor to C-4: DEFAULT. 2. Press the " ▲ " and " ▼ " button and move the cursor to the desired operation item. SAVE ... Save the present set values as the factory default values. LOAD ... Load the saved factory default values as the present set values. (When SAVE operation has not been performed, the initial values will be loaded.) INIT LOAD ... Load the initial values as the present set values. 3. When the SET button is pressed, the selected operation will be performed and it will return to the item setting screen. When the MENU button is pressed, no operation will be performed and it will return the item setting screen.

D: DV ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
D-1	REC ADJUST	Adjustment of the recording system for DVCPRO
D-2	RP ADJUST	Adjustment of the playback system (RP head) for DVCPRO
D-4	DEFAULT	LOAD/SAVE of the factory default adjustment values/initial values LOAD operation • Perform operation in regard to the adjustment values for DVCPRO. • Operation is effective only after completion of loading. Operation: 1. Move the cursor to C-4: DEFAULT. 2. Press the " ▲ " and " ▼ " button and move the cursor to the desired operation item. SAVE ... Save the present set values as the factory default values. LOAD ... Load the saved factory default values as the present set values. (When SAVE operation has not been performed, the initial values will be loaded.) INIT LOAD ... Load the initial values as the present set values. 3. When the SET button is pressed, the selected operation will be performed and it will return to the item setting screen. When the MENU button is pressed, no operation will be performed and it will return to the item setting screen.

C-1: REC ADJUST

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C01 D01	REC CURR L	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RP L head recording current	Yes	
C02 D02	REC FREQ L	-128 | 0 | 127	-128 | 0 | 127	Adjustment of the RP L head recording f characteristic	Yes	
C03 D03	REC CURR R	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RP R head recording current	Yes	
C04 D04	REC FREQ R	-128 | 0 | 127	-128 | 0 | 127	Adjustment of the RP R head recording f characteristic	Yes	
C05 D05	RE1 CURR	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RE1 head erase current	Yes	
C06 D06	RE2 CURR	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RE2 head erase current	Yes	
C07 D07	BPF FREQ	0 1	HIGH LOW	BPF band setting for recording adjustment • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C08 D08	XCAN MODE	0 1	OFF ON	Crosstalk canceler ON/OFF setting • The setting is held until exit from RRO ADJUST, DV ADJUST.	No	

C-2: RP ADJUST / C-3: PB ADJUST

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C01 D01	RF PHS L	-128 | 20 | 127	-128 | 20 | 127	Adjustment of the Lch head playback phase	Yes	
C02 D02	RF PHS R	-128 | 20 | 127	-128 | 20 | 127	Adjustment of the Rch head playback phase	Yes	
C03 D03	RF MAG L	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Lch head playback amplitude	Yes	
C04 D04	RF MAG R	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Rch head playback amplitude	Yes	

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C05 D05	ENV L	0 | 255	0 | 255	Playback signal envelope level read-out value averaged for each track of each head ENV L: Lch head ENV R: Rch head Averaging is performed at 8 points in the track, and the newest track value for which averaging has been completed at the time when read-out is started will be read out. • Read-out is possible only at the time of PLAY and REC. • The value is held until exit from PRO ADJUST, DV ADJUST. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	No	
C06 D06	ENV R	0 | 255	0 | 255		No	
C07 D07	AEQ SPD	0 1 2 3	0 1 2 3	The control response speed for the adaptive equalization filter is set in four levels. The sensitivity is highest with 0 and lowest with 3.	Yes	
C08 D08	HLD SEN	0 1 2 3	0 1 2 3	The detection sensitivity for detection of changes in the relative speed is set in four levels. The sensitivity is highest with 0 and lowest with 3.	Yes	
C09 D09	FLT SEN	0 1 2 3	0 1 2 3	The detection sensitivity for the fault detection function is set in four levels. A fault status is detected when a status where a normal signal can not be detected consecutively for 5 tracks over the following track values. 0: 1/2 1: 3/4 2: 7/8 3: 15/16	Yes	
C10 D10	PLLREV	0 1	SLOW FAST	The compensation speed in PLL frequency compensation mode is set in two levels	Yes	
C11 D11	PLLPHS	0 | 7 | 31	0 | 7 | 31	In the PLL response speed setting, mainly the phase pull-in speed is controlled. The response speed becomes faster with larger values.	Yes	
C12 D12	REV LEV	0 1 2 3	0 1 2 3	The strength of the frequency pull-in operation of the PLL phase comparison characteristic expansion function is controlled in four levels. The action is weakest with 0 and strongest with 3. When the data acquisition ratio at the time of special playback is bad, it can be improved by controlling this parameter.	Yes	
C13 D13	PLL FRQ	C13 0 | 7 | 31 D13 0 | 1 | 31	 0 | 7 | 31 0 | 1 | 31	The setting of the PLL response speed controls mainly the frequency pull-in speed. The response becomes faster with larger values.	Yes	
C14 D14	MONI LIM	0 | 46 | 127	0 | 46 | 127	Setting of the frequency offset tolerance value for PLL frequency monitor control The actual tolerance range in regard to the reference frequency is (set value)/10.24%.	Yes	
C15 D15	TH EYE	0 | 110 | 255	0 | 110 | 255	Setting of the threshold value for judging the signal quality after equalization The judgment result for the signal quality is used for adaptive equalization, PLL, fault detection function, and other control.	Yes	

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C16 D16	TH ULK	0 | 92 | 255	0 | 92 | 255	Setting of the threshold value for judging the signal quality after equalization The judgment result for the signal quality is used for adaptive equalization, PLL, fault detection function, and other control.	Yes	
C17 D17	TH ENV	0 | 16 | 255	0 | 16 | 255	Setting of the threshold value for the envelope detection signal The envelope detection signal is used for adaptive equalization filter, PLL, and AGC hold control.	Yes	
C18 D18	AGC SPEED	0 1 2 3	0 1 2 3	Setting of the AGC response speed	Yes	
C19 D19	VCO	0 | 512 | 1023	0 | 512 | 1023	Setting of the initial value of the output voltage adjusting the VCO center frequency Adjustment is performed automatically in standby mode, but the time required for automatic adjustment can be reduced by setting this value in advance to a suitable value. The automatically adjusted value is read out and set. • Read-out is possible only at the time of EJECT, STANDBY-OFF. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C20 D20	T L 3A	-31 | 0 | 31	-31 | 0 | 31	The initial values for six of the seven tap coefficients of the adaptive equalization filter, excluding the fixed center tap, are set for the Lch head. The tap coefficient values after adaptive equalization filter convergence at the time of standard tape playback are read out and set. • Read-out is possible only at the time of PLAY, REC. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C21 D21	T L 2A	-31 | 0 | 31	-31 | 0 | 31		Yes	
C22 D22	T L 1A	-80 | -32 | -4	-80 | -32 | -4		Yes	
C23 D23	T L 1B	-80 | -32 | -4	-80 | -32 | -4		Yes	
C24 D24	T L 2B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C25 D25	T L 3B	-31 | 0 | 31	-31 | 0 | 31		Yes	

Item		**Set value**		**Setting contents and outline function explanation**	**BACK-UP**	**Remarks**
No.	**SUPER DISP.**	**No.**	**SUPER DISP.**			
C26 D26	T R 3A	-31 | 0 | 31	-31 | 0 | 31	The initial values for six of the seven tap coefficients of the adaptive equalization filter, excluding the fixed center tap, are set for the Rch head. The tap coefficient values after adaptive equalization filter convergence at the time of standard tape playback are read out and set. • Read-out is possible only at the time of PLAY, REC. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C27 D27	T R 2A	-31 | 0 | 31	-31 | 0 | 31		Yes	
C28 D28	T R 1A	-80 | -32 | -4	-80 | -32 | -4		Yes	
C29 D29	T R 1B	-80 | -32 | -4	-80 | -32 | -4		Yes	
C30 D30	T R 2B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C31 D31	T R 3B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C32 D32	IC READ	0 1 2	OFF SINGLE CONT	The following data are read out from the EQ100 IC. However, there are limitations according to the mode. Data which can be read-out only at the time of PLAY, REC ENV L ENV R T L 3A T L 2A T L 1A T L 1B T L 2B T L 3B T R 3A T R 2A T R 1A T R 1B T R 2B T R 3B Data which can be read-out only at the time of EJECT, STANDBY-OFF VCO 0: No read-out 1: Read-out each time the SET button is pressed. 2: Read-out is performed once every second. • The setting is held until PRO ADJUST, DV ADJUST is left.	No	

C-1: REC ADJUST / C-2: RP ADJUST / C-3: PB ADJUST COMMON ITEM

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C40 D40	VITERBI MODE	0 1	OFF ON	Setting whether Viterbi decoding is to be used for detection of playback data or not • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C41 D41	AEQ MODE	0 1	OFF ON	Setting of the adaptive function of the adaptive equalization filter • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C42 D42	ECC MODE	0 1 2	ALL ON OT OFF AL OFF	Setting of error correction control 0: Error correction for INNER and OUTER. 1: Error correction only for INNER, but not for OUTER. 2: No error correction for INNER and OUTER. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C43 D43	CONCEAL MOD	0 1	ON OFF	Setting of error revision control 0: Error revision is performed. 1: Error revision is not performed. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C44 D44	ERROR MODE	0 1	FAST SLOW	Setting of the error sampling time 0: FAST mode 1: SLOW mode • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C45 D45	PB HEAD	0 1	PB RP	• Setting of Playback head 0: PB head 1: RP head The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C46 D46	REC DATA	0 1	NORMAL CW	• Select the Rec Data 0: NOMAL Data 1: CW Signal The setting is held until exit from PRO ADJUST,DV ADJUST.	No	
C47 D47	TRACKING MOD	0 1	ATF CTL	Tracking mode setting 0: ATF tracking 1: CTL tracking • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C48 D48	TRACKING VAL	-128 | 0 | 127	-128 | 0 | 127	Offset value setting for CTL tracking • Effective only at the time of TRACKING MOD = CTL. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	

E00: VIN ADJUST

VIN ADJUST has a subscreen composition, and there is a hierarchical structure for each format.

VIN ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
E-1	CMPNT ADJUST	Adjustment to component input
E-2	CMPST ADJUST	Adjustment of composit input
E-3	YC ADJUST	Adjustment of S-VIDEO (Y/C) input

E-1: CMPNT ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	NENT Y GAIN	-128 | -10 | 127	-128 | -10 | 127	Adjustment of component Y level	Yes	
E01	NENT Y OFS	-128 | -79 | 127	-128 | -79 | 127	Adjustment of component Y offset level	Yes	
E02	NENT PB GAIN	-128 | 55 | 127	-128 | 55 | 127	Adjustment of component Pb level	Yes	
E03	NENT PB OFS	-128 | -38 | 127	-128 | -38 | 127	Adjustment of component Pb offset level	Yes	
E04	NENT PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of component Pb timing	Yes	
E05	NENT PR GAIN	-128 | 64 | 127	-128 | 64 | 127	Adjustment of component Pr level	Yes	
E06	NENT PR OFS	-128 | -30 | 127	-128 | -30 | 127	Adjustment of component Pr offset level	Yes	
E07	NENT PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of component Pr timing	Yes	

E-2: CMPST ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	SITE Y GAIN	-128 | 5 | 127	-128 | 5 | 127	Adjustment of composit Y level	Yes	
E01	SITE Y OFS	-128 | -81 | 127	-128 | -81 | 127	Adjustment of composit Y offset level	Yes	
E02	SITE PB GAIN	-128 | 18 | 127	-128 | 18 | 127	Adjustment of composit Pb level	Yes	
E03	SITE PB OFS	-128 | -38 | 127	-128 | -38 | 127	Adjustment of composit Pb offset level	Yes	
E04	SITE PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of composit Pb timing	Yes	
E05	SITE PR GAIN	-128 | 75 | 127	-128 | 75 | 127	Adjustment of composit Pr level	Yes	
E06	SITE PR OFS	-128 | -31 | 127	-128 | -31 | 127	Adjustment of composit Pr offset level	Yes	
E07	SITE PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of composit Pr timing	Yes	
E08	SITE CAXIS	-128 | -27 | 127	-128 | -27 | 127	Adjustment of composit vector phase	Yes	

E-3: Y/C ADJUST

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	YC Y GAIN	-128 | -25 | 127	-128 | -25 | 127	Adjustment of the Y level for S-VIDEO (YC)	Yes	
E01	YC Y OFS	-128 | -79 | 127	-128 | -79 | 127	Adjustment of the Y offset for S-VIDEO (YC)	Yes	
E02	YC PB GAIN	-128 | -2 | 127	-128 | -2 | 127	Adjustment of the Pb level for S-VIDEO (YC)	Yes	
E03	YC PB OFS	-128 | -37 | 127	-128 | -37 | 127	Adjustment of the Pb offset level for S-VIDEO (YC)	Yes	
E04	YC PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of the Pb timing for S-VIDEO (YC)	Yes	
E05	YC PR GAIN	-128 | 45 | 127	-128 | 45 | 127	Adjustment of the Pr level for S-VIDEO (YC)	Yes	
E06	YC PR OFS	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Pr offset level for S-VIDEO (YC)	Yes	
E07	YC PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of the Pr timing for S-VIDEO (YC)	Yes	
E08	YC CAXIS	-128 | -27 | 127	-128 | -27 | 127	Adjustment of the vector phase for S-VIDEO (YC)	Yes	

F00: VIDEO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
F03	VIDEO MUTE	0 1	NORMAL MUTE	Select whether the VIDEO output is to be made gray or not 0:Normal output 1:Forced gray output	No	
F06	EE TEST MODE	0 1	NORMAL DCI RT	EE check for the entire signal processing system 0:Bus EE (EE1) 1:Full EE (EE2)	No	
F11	V SETUP	0 1	OFF ON	Switching of effective/not effective for SETUP MENU 613: SETUP 0:SETUP-MENU 613: SETUP is not displayed and THRU is sent forcibly to AV. However, the backup value does not change. (Shipping setting for T) 1:SETUP-MENU 613: SETUP is displayed and the set value is sent to AV. (Shipping setting for P, E, EG)	Yes	
F17	GAP COUNT	0 | 40 | 64	0 | 40 | 64	Setting of the GAP count for DVPRO I/F	Yes	

G00: AUDIO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
G01	REF_LEVEL1	0 1 2	FS-20 FS-18 FS-12	Selection of the audio I/O reference level 0: Full scale -20 dB 1: Full scale -18 dB 2: Full scale -12 dB • Change of the set value is possible only when G02: REF_LEVEL2 = 0 dB has been set.	Yes	
G02	REF_LEVEL2	0 1	0dB -3dB	Selection of the SETUP MENU set value for switching of the audio I/O reference level. 700:CH1 IN LV 703:CH1 OUT LV 701:CH2 IN LV 704:CH2 OUT LV 0: 4 dB/0 dB/-20dB/-60dB switching is possible. 1: Fixed to -3 dB • Set value change is possible only when G01:REF LEVEL 1 = FS-18 has been set.	Yes	
G03	REF LV INI	0 1	0dB 4dB	Setting of the factory default value of the SETUP MENU for audio I/O reference level switching. 700:CH1 IN LV 703:CH1 OUT LV 701:CH2 IN LV 704:CH2 OUT LV 0: 0 dB (Shipping setting for oversea) 1: 4 dB (Shipping setting for JAPAN)	Yes	
G08	AUD PB MODEI	0 1	MODE1 MODE2	Setting of audio playback mode 0: NOMAL Mode 1: Setting is carried out when directly editing the jointed tape on which recording was performed with a cam coder or playing back the edited tape.	Yes	
G09	LINE OUT CUE	0 1	OFF ON	Setting whether “CH1/CH2 OUTPUT terminal” can be selected is forcibly as the CUE output signal.	Yes	

H00: OTHER ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
H01	STILL LIMIT	0 1	2 min 6 min	Set the maximum value of the "SETUP-MENU 400 : STILL TIMER". Decide whether the still timer should be reset when the STANDBY-ON command is received during the STOP mode. 0:2 min/The still timer should not be reset 1:6 min/The still timer should be reset	Yes	
H02	LTC OUT SEL	0 1	N-STOP STOP	Selection of TC output according to the mode or not 0: Output always, independent of the mode 1: ON/OFF switching of the TC output according to the VTR mode. However, the TC output always is ON at the time of SETUP MENU 317: AUD MEM MODE = AMU_X, AMU_VO.	Yes	
H03	SYSTEM TYPE	0 1	TYPE 1 TYPE 2	Selection whether 2.3x speed is added to SHTL mode or not 0: No 2.3 speed 1: 2.3 speed exists	Yes	

H02: TC output by the mode at the time of LTC OUT SEL = STOP setting

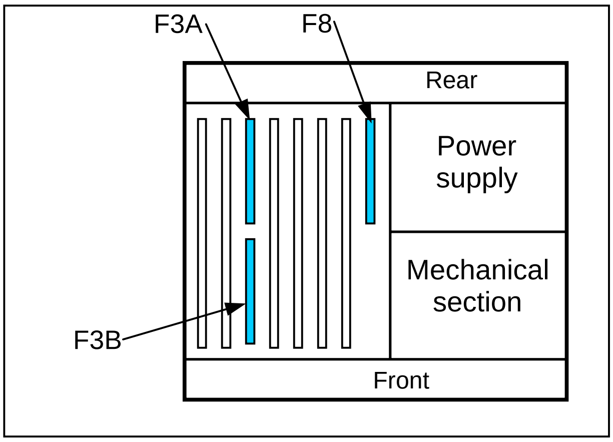
TC INT/EXT	Mode	VV / EE	TC output
INT	EJECT STOP STANDBY OFF JOG/VAR/SHTL STILL	— OFF	
	Others —		ON
EXT	EJECT STOP STANDBY OFF JOG/VAR/SHTL STILL	VV (including BLACK, GLAY of EJECT)	OFF
		EE O	N
	Others	—	ON

13-4. SET-UP Menu Initialization

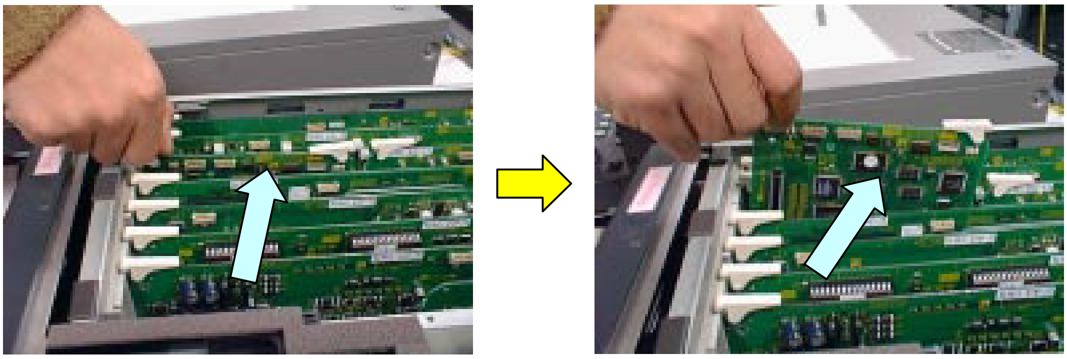
1. In the EJECT mode, press the “MENU” button to open the SETUP menu.
2. Keep and press the “EJECT” button, and press the “RESET” button mor than 2 seconds.
3. Close the menu automaticaly, then the SET-UP menu information (SYSTEM, USER1-5) is initialized.

14. Notes on Removal of PCB F3A, F3B, F8

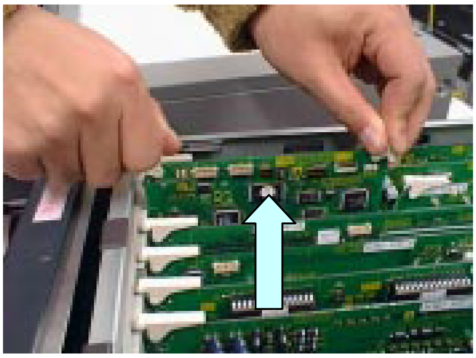
In AJ-D455P, the H-PCBs (half-size PCBs) are inserted in the F-PCB (full-size PCB) slots. Pulling of the three PCBs, F3A (SDI option), F3B (DIF option), and F8 (RF), with only one hand may cause bend on the pin of the PCB connector. When removing them, be sure to pull them straight upward with your both hands.


F3A
F8
Rear
Power supply
Mechanical section
F3B
Front

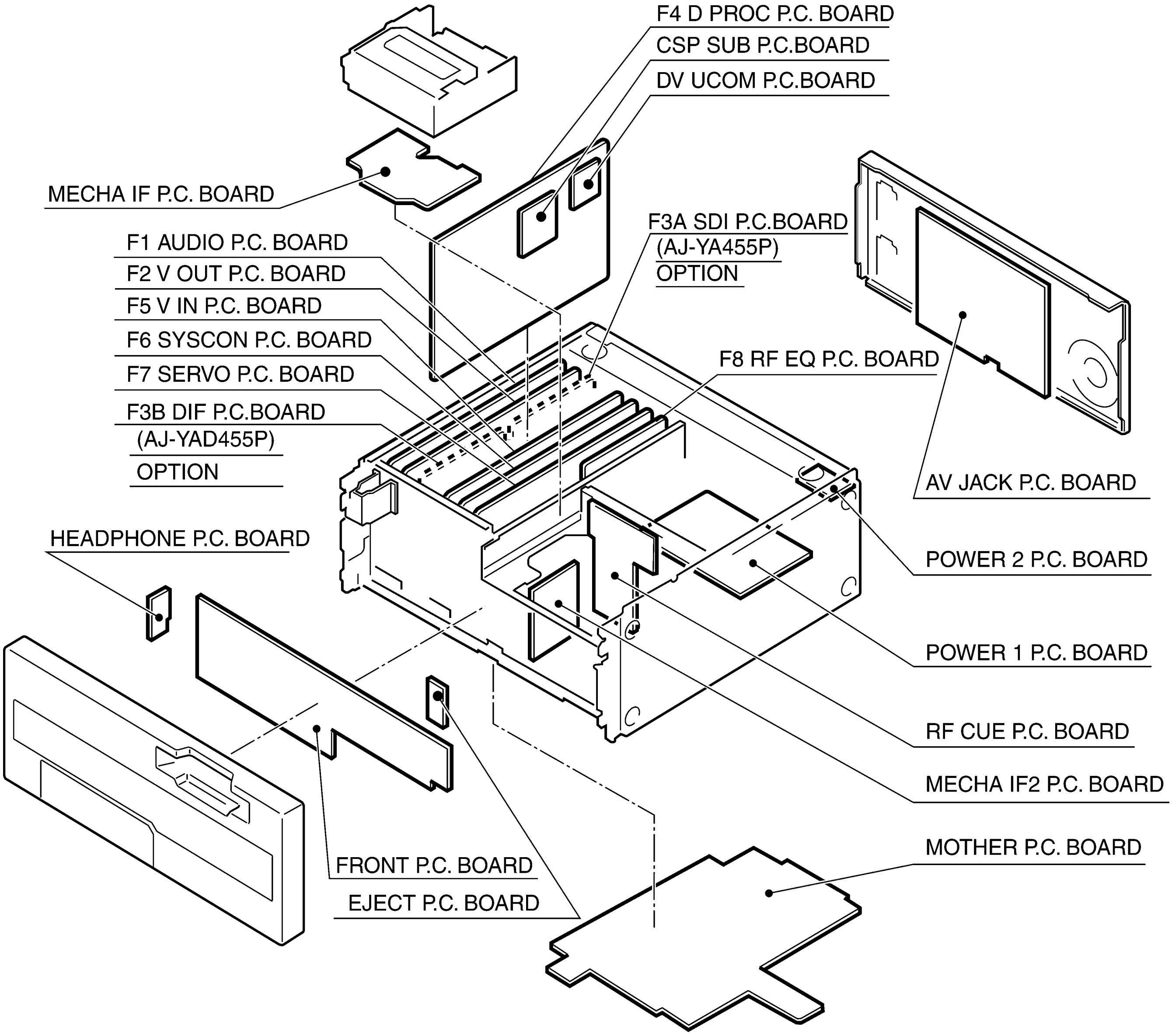
Bad removal (Pulling up PCB slantingly with only one hand)



Good removal (Pulling up PCB straight with both hands)



15. Circuit board layout drawing


F4 D PROC P.C. BOARD
CSP SUB P.C.BOARD
DV UCOM P.C.BOARD
MECHA IF P.C. BOARD
F3A SDI P.C.BOARD
(AJ-YA455P)
OPTION
F1 AUDIO P.C. BOARD
F2 V OUT P.C. BOARD
F5 V IN P.C. BOARD
F6 SYSCON P.C. BOARD
F7 SERVO P.C. BOARD
F8 RF EQ P.C. BOARD
F3B DIF P.C.BOARD
(AJ-YAD455P)
OPTION
AV JACK P.C. BOARD
HEADPHONE P.C. BOARD
POWER 2 P.C. BOARD
POWER 1 P.C. BOARD
RF CUE P.C. BOARD
MECHA IF2 P.C. BOARD
MOTHER P.C. BOARD
FRONT P.C. BOARD
EJECT P.C. BOARD

16. AJ-YAD455P Service Information

16-1. Node Unique ID (UID) number Setting Procedure

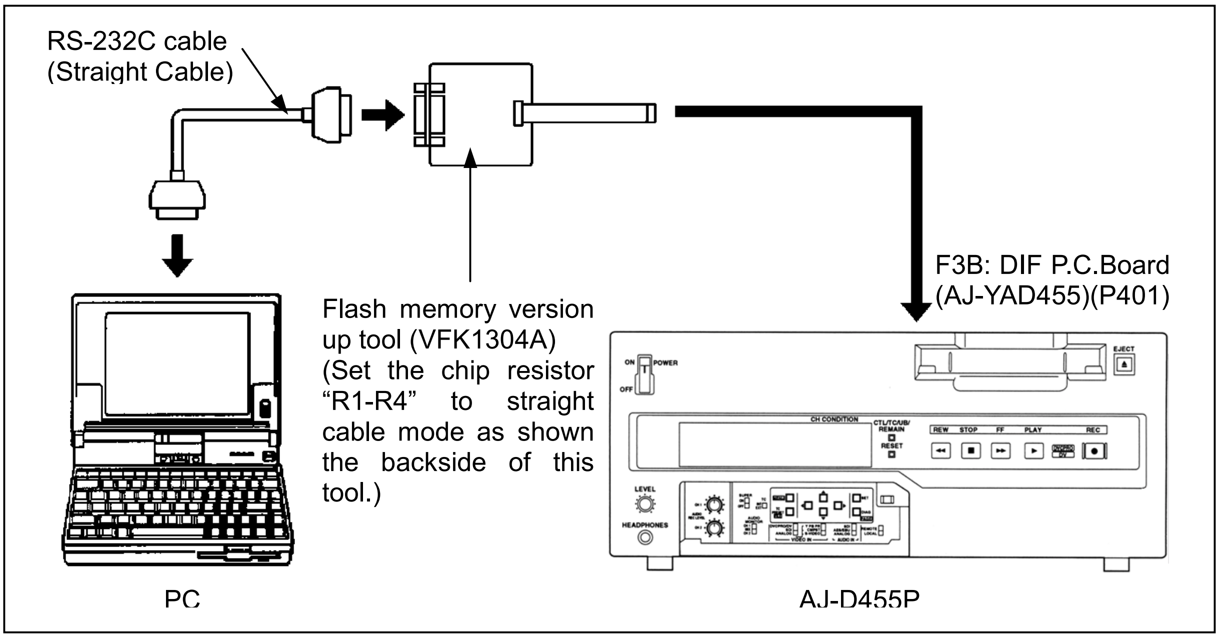
<Confirmation of UID number>

AJ-YAD455 has “Node Unique ID” for IEEE1394 I/F. This number is displayed in the DIF STATUS MENU.

1. Press the “DIAG” button, then open the Warning page.
2. Press the “4” button twice to open the DIF STATUS page.
3. The UID number is displayed on the bottom side of the menu.

<Writing UID>

1. Connect the AJ-D455P, the “Flash memory version up tool (VFK1304A)”, and the personal computer as shown below. Pay attention not to confuse the connection direction (rear, front) for the flat cable of the tool (VFK1304A). And set the VFK1304A to “STRAIGHT CABLE” mode as shown the backside of this tool.


RS-232C cable
(Straight Cable)
Flash memory version up tool (VFK1304A) (Set the chip resistor “R1-R4” to straight cable mode as shown the backside of this tool.)
F3B: DIF P.C.Board (AJ-YAD455)(P401)
PC
AJ-D455P

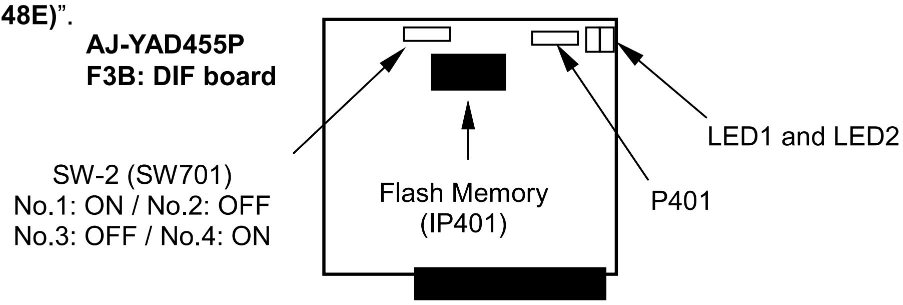
2. Set the DIP-SW1 (SW301) and SW2 (SW701) as follows.
   SW1 (SW301) = No.1:ON / NO.2-8:OFF
   SW2 (SW701) = No.1:ON / No.2:OFF / No.3:OFF / No.4:ON
3. Turn the power of personal computer on.
4. Start up the Hyper Terminal of Windows 95/98 on the personal computer.
   (Programs of Windows → Accessories → Hyper Terminal → Hypertrm)
   Name the Hyper Terminal "1394", and select an icon.
   Select the connection method. (Connecting using: Direct to COM*)
   Perform settings of the Port. (Bits per second: 9600, Data bits: 8, Parity: None, Stop bits: 1, Flow control: None)
   File → Properties → Settings → ASCII Setup → put a mark on the "Append line feeds to incoming line ends" of ASCII Receiving.
5. Turn the power of AJ-D455P on.
6. The initial screen of Debug Monitor appears on the Hyper Terminal screen.

```
********************************************************************************
*                         -- Debug Monitor --                                  *
*   Copyright(C) 1997-1998, Matsushita Electric Industrial Co., Ltd.           *
*                          All right reserved                                  *
********************************************************************************
```

7. Press the Enter key, and confirm that "MON >>" appears.
8. Input the UID command "MON >>uid ********", which is the 8 digits of the second half of the UID. (The 8 digits of the first half is always 00804582.)
9. Confirm that "&OK" and "MON >>" appear.
10. Close the software "Hyper Terminal". Turn the power of AJ-D455P off.
11. Set the SW1and 2 to original position.

16-2. Version Upgrade for Flash Memory

The AJ-YAD455P (F3B: DIF board) has flash memory. For the software version up, connect the “**Flash memory version up tool (VFK1304A)**” to the tool connection connector and use the “**Flash memory version up software (VFK1248E)**”.


AJ-YAD455P
F3B: DIF board
SW-2 (SW701)
No.1: ON / No.2: OFF
No.3: OFF / No.4: ON
Flash Memory
(IP401)
P401
LED1 and LED2

16-2-1. Version Upgrade Preparations

1. ***Items required for flash memory writing***

   Flash memory version up software..**VFK1248E**
   NOTE: Software with the old version (VFK1248A) can not be used.
   Flash memory version up tool...**VFK1304A**
   Personal computer compatible with Windows 95/98
   RS-232C cable (9pin-9pin Straight -cable)

2. ***Installation of the flash memory version up software***

   Copy the following file to arbitrary directory on a personal computer compatible with Windows 95/98. (After execution of the software, an “.INI” file will be created in the same directory as the program file, but this may be left or may be deleted as desired.)

   Program file..........................**VSI2312E.EXE**

3. ***Setting of the flash memory version up tool***

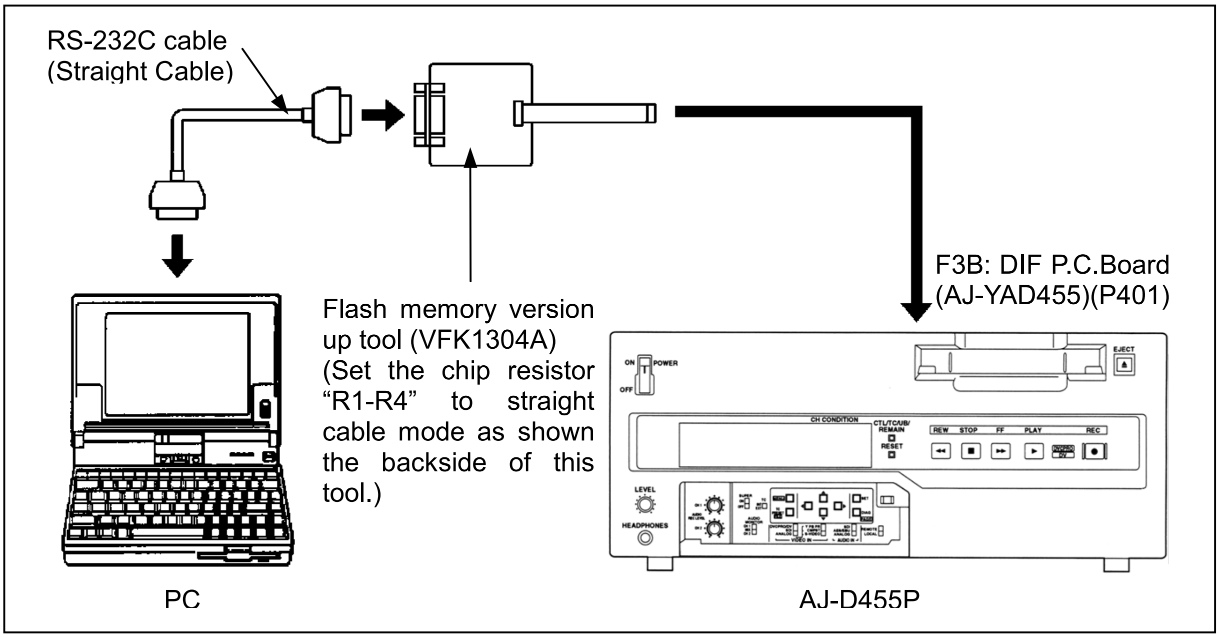
   Set the VFK1304A to “STRAIGHT CABLE” mode as shown the backside of this tool.

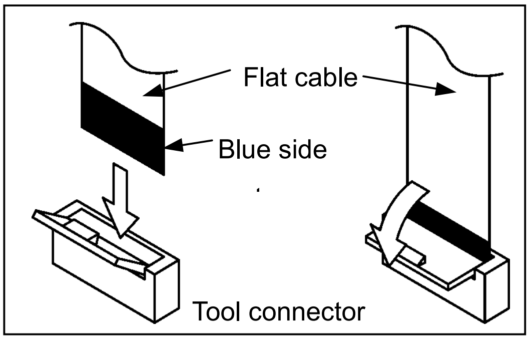
   Confirm the switch settings of the “flash memory version up tool (VFK1304A)”.

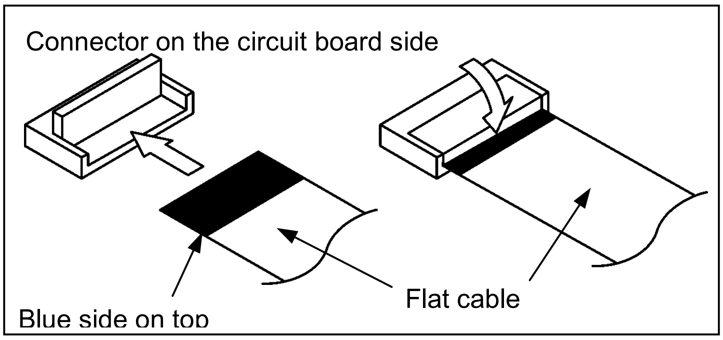
   SW1-1: ON **SW1-3: OFF**
   SW1-2: ON **SW1-4: OFF**

4. ***Connection of the flash memory version up tool***

   Turn off the power of the AJ-D455P and the personal computer and then connect them as shown in the following figure. Pay attention not to confuse the connection direction (top, bottom) for the flat cable of the flash memory version up tool (VFK1304A).

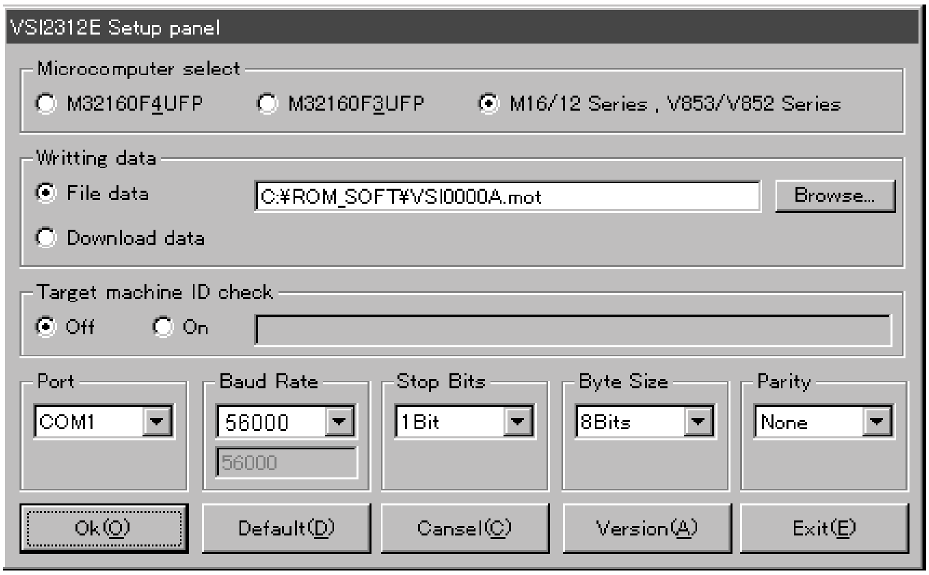

RS-232C cable
(Straight Cable)
Flash memory version up tool (VFK1304A)
(Set the chip resistor “R1-R4” to straight cable mode as shown the backside of this tool.)
F3B: DIF P.C.Board
(AJ-YAD455)(P401)
PC
AJ-D455P


Flat cable
Blue side
Tool connector


Connector on the circuit board side
Blue side on top
Flat cable

16-2-2. Version Upgrade Procedure

1. Boot up the personal computer in the condition which “**16-2-1. Version Upgrade Preparations**” is completed.
2. Turn on the power of the AJ-D455P. Confirm that the LED1 and LED2 on the DIF board should be OFF.
3. Start the flash memory version up software.
   (Double-click the program file “**VSI2312E.EXE**”, which had been copied to arbitrary directory, or create a shortcut to “**VSI2312E.EXE**” and double-click the shortcut.)
4. When this program is started, the “Setup Panel” will open as shown below.



VSI2312E Setup panel

Microcomputer select
○ M32160F4UFP ○ M32160F3UFP ● M16/12 Series , V853/V852 Series

Writting data
● File data C:¥ROM_SOFT¥VSI0000A.mot
○ Download data

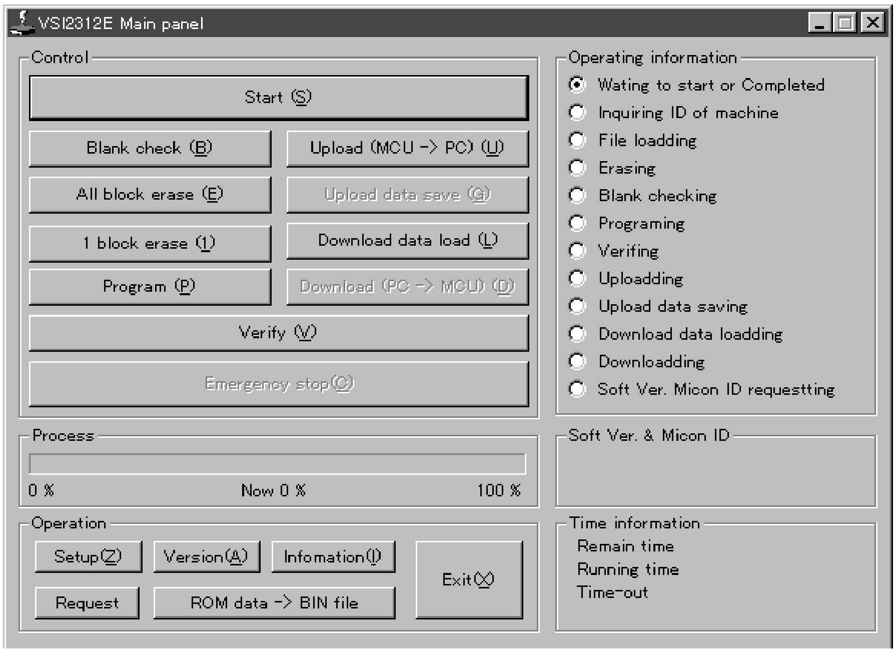
Target machine ID check
● Off ○ On

Port: COM1
Baud Rate: 56000 (56000)
Stop Bits: 1Bit
Byte Size: 8Bits
Parity: None

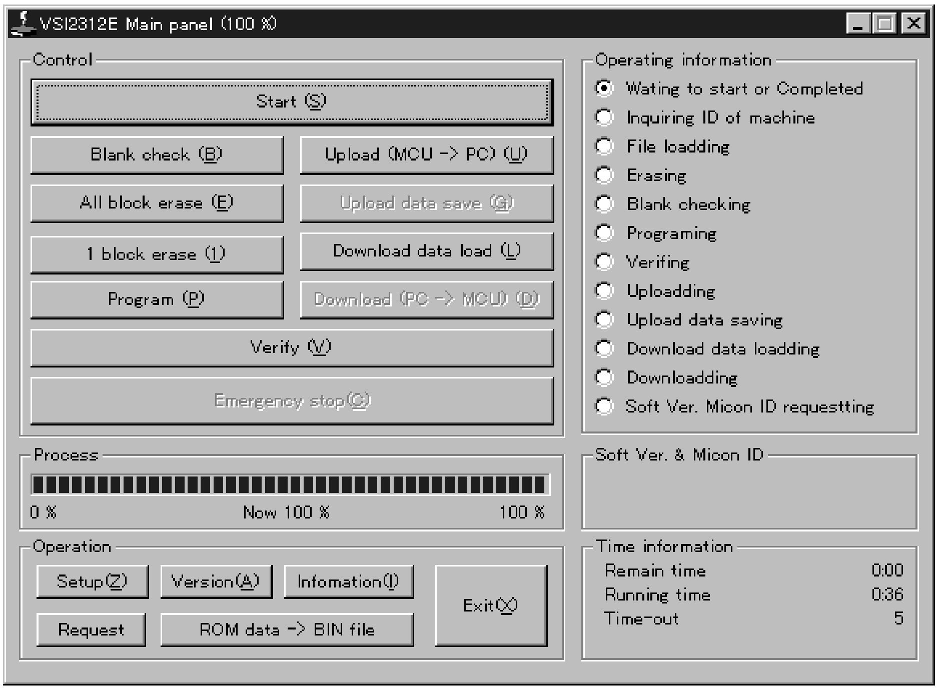
Browse...
Ok(O)
Default(D)
Cansel(C)
Version(A)
Exit(E)

5. Perform the following settings on the “**Setup Panel**”.
   - Microcomputer select........................... **M16/12 Series. V853/852 Series**
   - Writing data.. **File data**
     Enter the new software (XXXX.mot) for the version upgrade with the full path. You can also use the “Browse...” button on the “Setup Panel” to select the file name and the location of the new software.
   - Target machine ID check .... **OFF**
   - Port... Set the port which the RS-232C cable of the personal computer is connected to.
   - Baud Rate **56000**
   - Stop Bits... **1Bit**
   - Byte Size... **8Bits**
   - Parity... **None**

6. When the settings on the “**Setup Panel**” is completed, click “**Ok(O)**”. The “**Main Panel**” will be opened as shown below.


VSI2312E Main panel
Control
Start (S)
Blank check (B)
Upload (MCU -> PC) (U)
All block erase (E)
Upload data save (G)
1 block erase (1)
Download data load (L)
Program (P)
Download (PC -> MCU) (D)
Verify (V)
Emergency stop(C)
Operating information
● Wating to start or Completed
○ Inquiring ID of machine
○ File loadding
○ Erasing
○ Blank checking
○ Programing
○ Verifing
○ Uploadding
○ Upload data saving
○ Download data loadding
○ Downloadding
○ Soft Ver. Micon ID requestting
Process
0 %
Now 0 %
100 %
Soft Ver. & Micon ID
Operation
Setup(Z)
Version(A)
Infomation(I)
Exit(X)
Request
ROM data -> BIN file
Time information
Remain time
Running time
Time-out

7. Click “**Start (S)** ” on the “**Main Panel**”. (If you want to quit here, click “**Exit**”. If you want to return again to the “**Setup Panel**”, click “**Setup(Z)**”.)
8. After erasing of the flash memory, the new software will be written to the flash memory. During the processing, the progress status can be confirmed by means of the “**Process**” indicator. If the indicator should not advance for some reason, click “**Emergency stop(C)**” to stop the work, connect again, and confirm the settings.
9. When erasing and writing of the flash memory is completed, the “Process” indicator reaches 100%, and a black dot appears for “**Waiting to start or Complete**” of “**Operating information**”. (Next page)


VSI2312E Main panel (100 %)
Control
Start (S)
Blank check (B)
Upload (MCU -> PC) (U)
All block erase (E)
Upload data save (G)
1 block erase (1)
Download data load (L)
Program (P)
Download (PC -> MCU) (D)
Verify (V)
Emergency stop(C)
Operating information
● Wating to start or Completed
○ Inquiring ID of machine
○ File loadding
○ Erasing
○ Blank checking
○ Programing
○ Verifing
○ Uploadding
○ Upload data saving
○ Download data loadding
○ Downloadding
○ Soft Ver. Micon ID requestting
Process
0 %
100 %
Soft Ver. & Micon ID
Operation
Setup(Z)
Version(A)
Infomation(I)
Exit(X)
Request
ROM data -> BIN file
Time information

Now 100 %

Remain time 0:00
Running time 0:36
Time-out 5

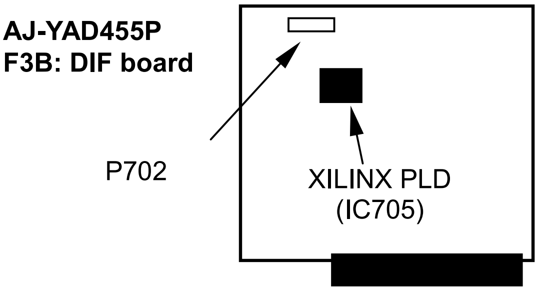
10. When the above status is reached, click “**Exit(X)** ” to end the program.
11. When the version upgrade is completed, turn off the power of the AJ-D455P and remove the version up tool.
12. Turn on the AJ-D455 power again and press the buttons “**PLAY**” and “**STOP**” at the front panel simultaneously to confirm that the version has been upgraded.

16-3. PLD Version Upgrade Procedure

The AJ-YAD455P uses **PLDs**. At the time of a version upgrade, use the special tool, connect the respective connection connectors, and use the PLD writing software.

16-3-1. PLD Chart

Circuit board name	Connector	Number of pins'	PLD No.	PLD maker	Use quantity
F3B: DIF (AJ-YAD455P)	P702	8P	XC95144XL (IC705)	XILINX	1


AJ-YAD455P
F3B: DIF board
P702
XILINX PLD
(IC705)

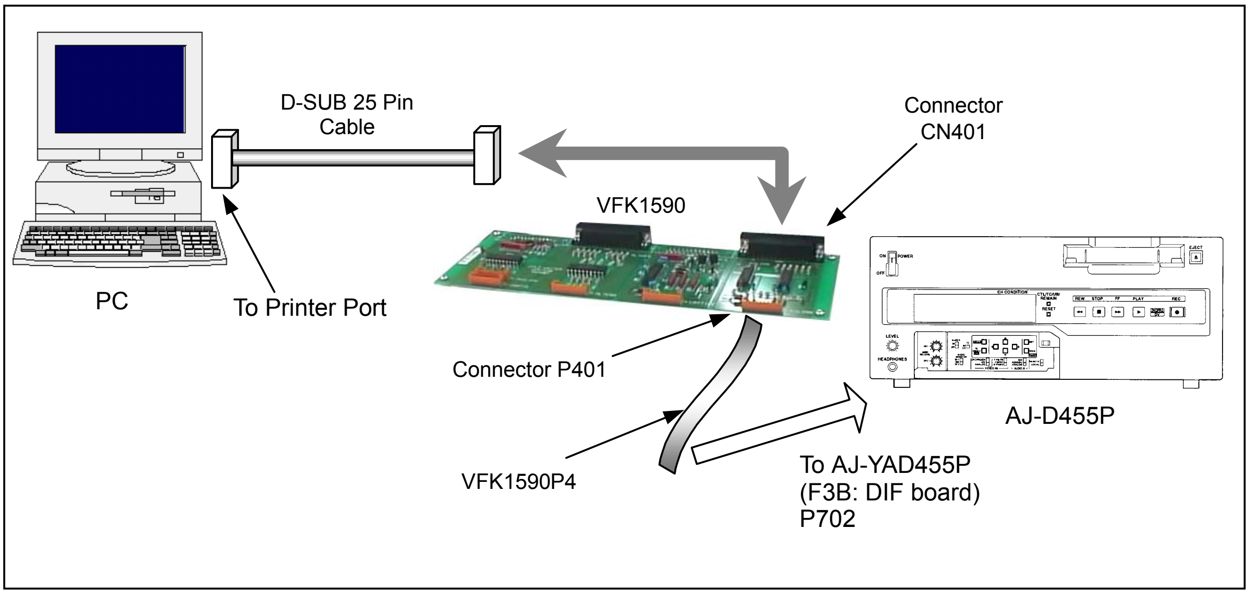
16-3-2. PLD Version up Method (XILINX)

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	JTAG Programmer Software (Please Download from www.xilinx.com)
Version Upgrade Data	cdf File (Include in VSI**** file)
Personal Computer	WINDOWS 95® or 98®

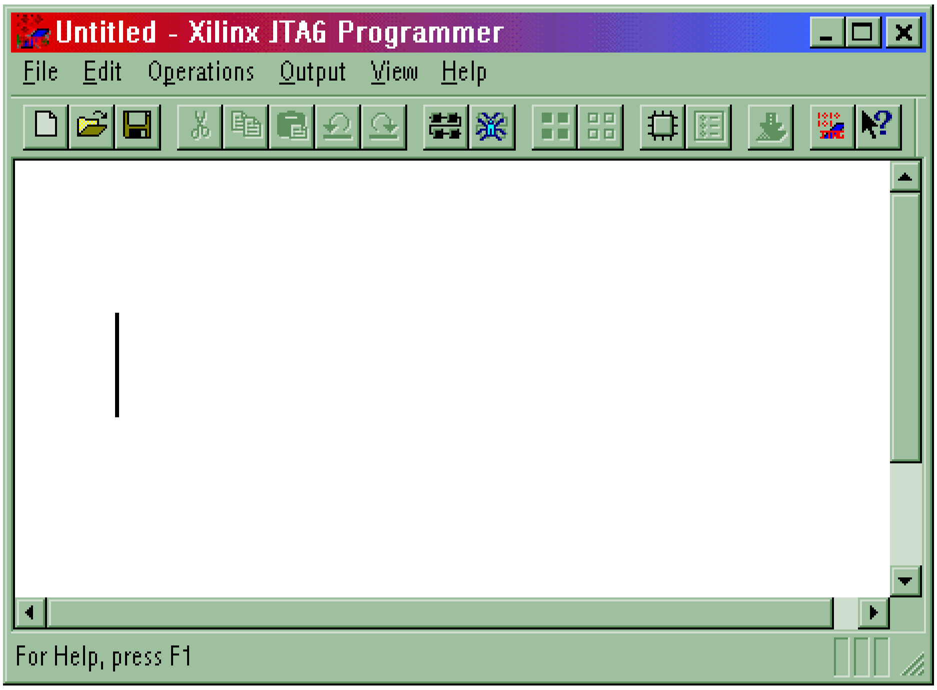
B. Connection

1. Connect the D-sub Cable between CN401 (for XILINX) connector of the CPLD WRITER(VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P4) between connector on objective PCB and P4 connector of CPLD WRITER. (Refer to 16-3-1.Chart of PLD Writer and following figure.)
3. Turn on AJ-D455P and Personal Computer (Windows mode).

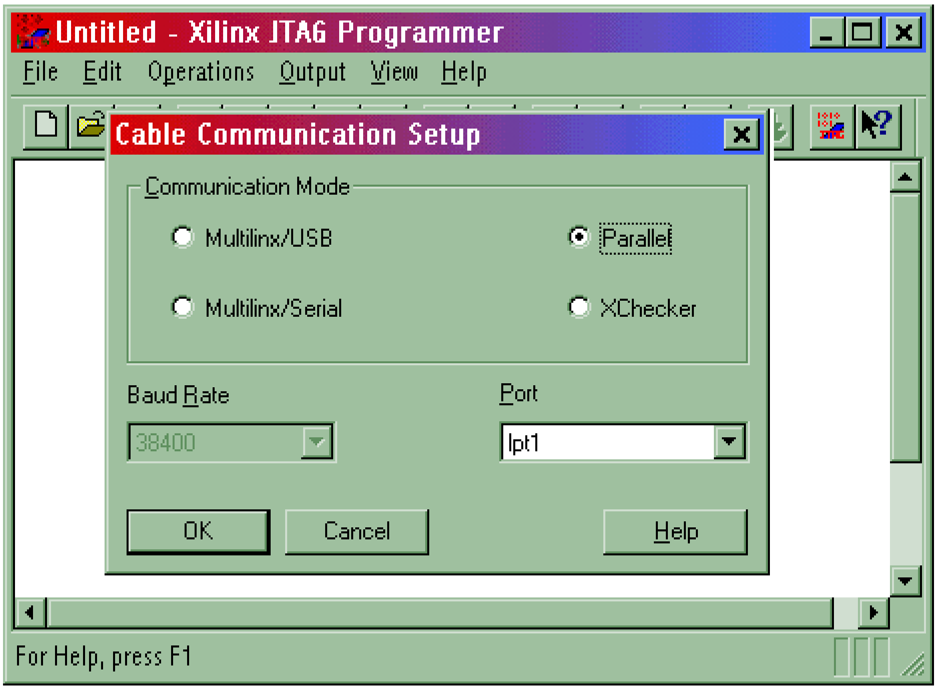

D-SUB 25 Pin Cable
Connector CN401
VFK1590
PC
To Printer Port
Connector P401
AJ-D455P
VFK1590P4
To AJ-YAD455P
(F3B: DIF board)
P702

C．Boot up the Ver. Up Software and Ver. up Procedure

1. After download the program, **"Xilinx CPLD Webpack"** folder is created on windows. Click the start button of windows program **"Xilinx CPLD Webpack"**, then Device Program is boot up and following screen appears.


Untitled - Xilinx JTAG Programmer
File Edit Operations Output View Help
For Help, press F1

2. Click **"OUTPUT"** on the menu bar and select **"Parralle"** for **"Cable Communication Setup"** (default port is **"lpt1"**).


Untitled - Xilinx JTAG Programmer
File Edit Operations Output View Help
Cable Communication Setup
OK
Cancel
Help
For Help, press F1

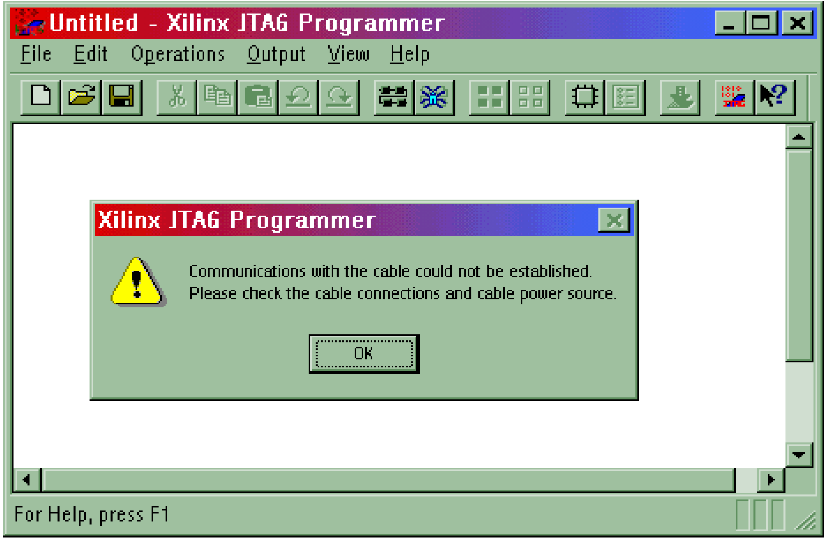
Communication Mode

○ Multilinx/USB
● Parallel
○ Multilinx/Serial
○ XChecker

Baud Rate: 38400

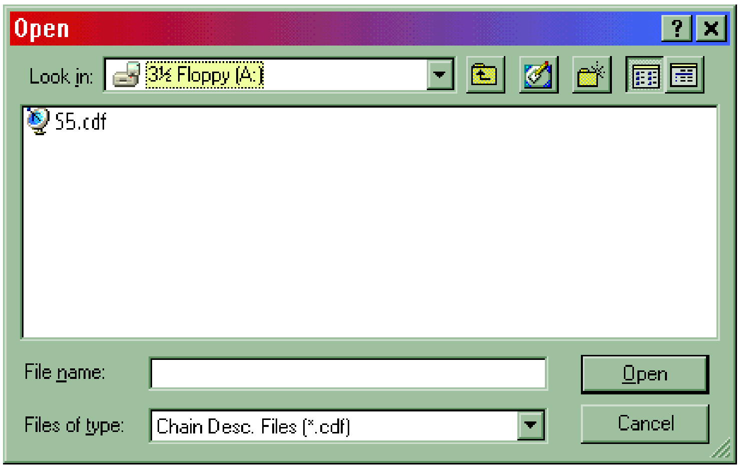
Port: lpt1

3. If connection is correct, following message appears.


Untitled - Xilinx JTAG Programmer
File Edit Operations Output View Help
Xilinx JTAG Programmer
OK
For Help, press F1

Communications with the cable could not be established.
Please check the cable connections and cable power source.

4. Click **“OK”** button.
5. Insert the floppy disk for version up data into A drive.
6. Open the target file. This file called Disk file, because one file can write serveral CPLDs like a chain.

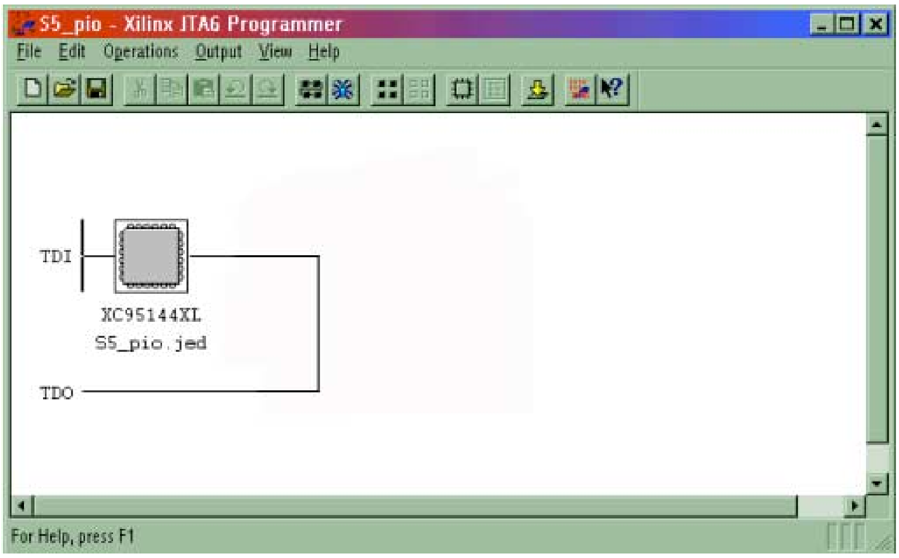

Open
S5.cdf
Open
Cancel

Look in: 3½ Floppy (A:)

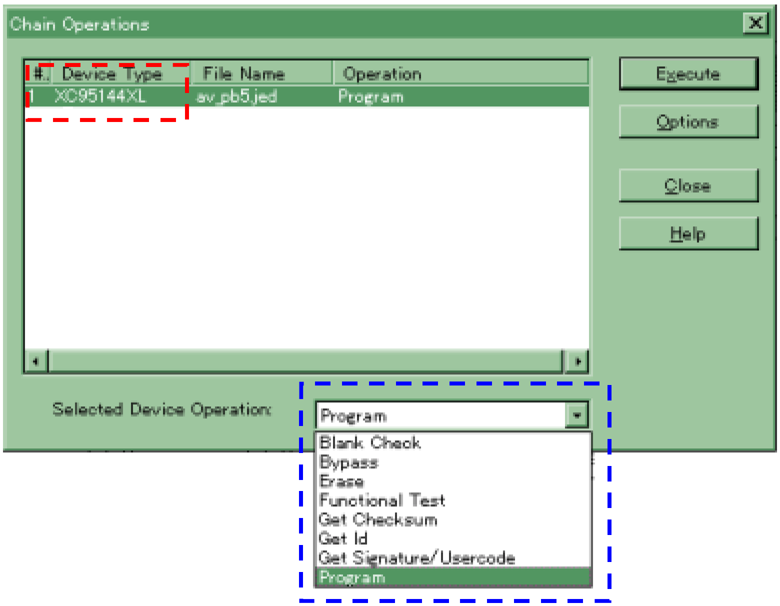
File name:

Files of type: Chain Desc. Files (*.cdf)

7. Click **“Open”** button, then following screen appears.


S5_pio - Xilinx JTAG Programmer
File Edit Operations Output View Help
TDI
XC95144XL
S5_pio.jed
TDO
For Help, press F1

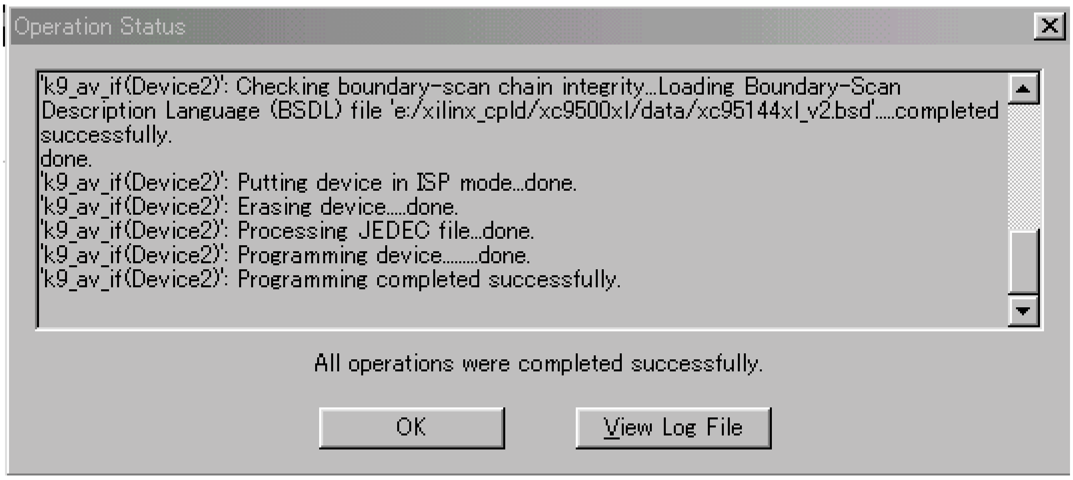
8. Then click **“Operations”** on menu bar and select **“Chain Operation”**. Then following screen appears.
9. Select the device from the **“Device Type”** column on the Chain Operation Window.
   Click the **“Selected Device Operation”** and select **“Program”**.
   Perform this procedure to all devices.


Chain Operations
Execute
Options
Close
Help
Blank Check
Bypass
Erase
Functional Test
Get Checksum
Get Id
Get Signature/Usercode
Program

#.	Device Type	File Name	Operation
1	XC95144XL	av_pb5.jed	Program

Selected Device Operation: Program

10. Click **“Execute”** button.
11. When the following screen with the message of **“All operation were completed successfully.”** appears, data writing is completed.


Operation Status
OK
View Log File

```
'k9_av_if(Device2)': Checking boundary-scan chain integrity...Loading Boundary-Scan
Description Language (BSDL) file 'e:/xilinx_cpld/xc9500xl/data/xc95144xl_v2.bsd'.....completed
successfully.
done.
'k9_av_if(Device2)': Putting device in ISP mode...done.
'k9_av_if(Device2)': Erasing device.....done.
'k9_av_if(Device2)': Processing JEDEC file...done.
'k9_av_if(Device2)': Programming device.........done.
'k9_av_if(Device2)': Programming completed successfully.
```

All operations were completed successfully.

SECTION 2

DISASSEMBLY PROCEDURES

CONTENTS

1. DISASSEMBLY PROCEDURES DIS-1
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    - 1-2. Removal of Bottom Panel DIS-1
    - 1-3. Removal of Front Panel Unit...DIS-1
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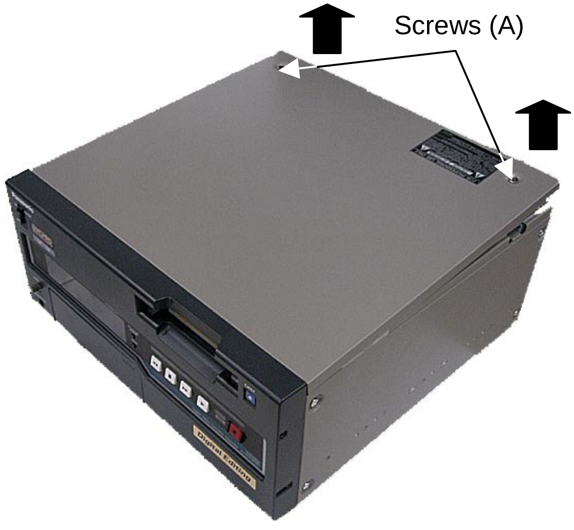
    - 1-5. Removal of Mechanism Unit DIS-2
    - 1-6. Removal of Cylinder Unit DIS-3
    - 1-7. Removal of Power Supply Unit DIS-3
    - 1-8. Removal of Fan Motor DIS-3

DISASSEMBLE PROCEDURES

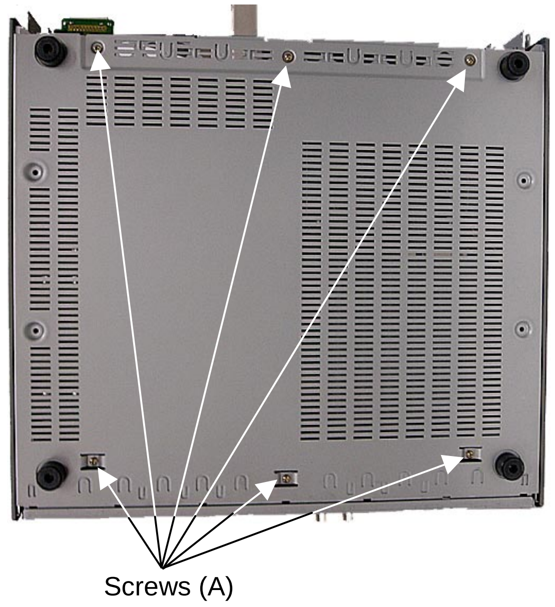
1-1. Removal of Top Panel

1. Loosen s screws (A) and remove the Top Panel.



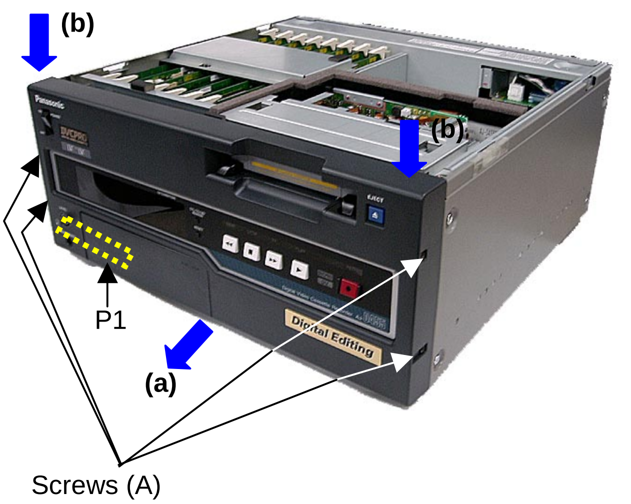
1-2. Removal of Bottom Panel

1. Unscrew the 6 screws (A) and remove the Bottom Panel.



1-3. Removal of Front Panel

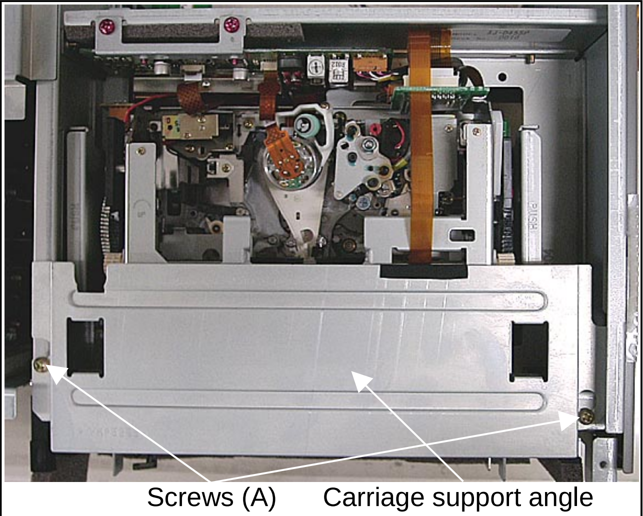
1. Unscrew the 4 screws (A) and remove the Front Panel.



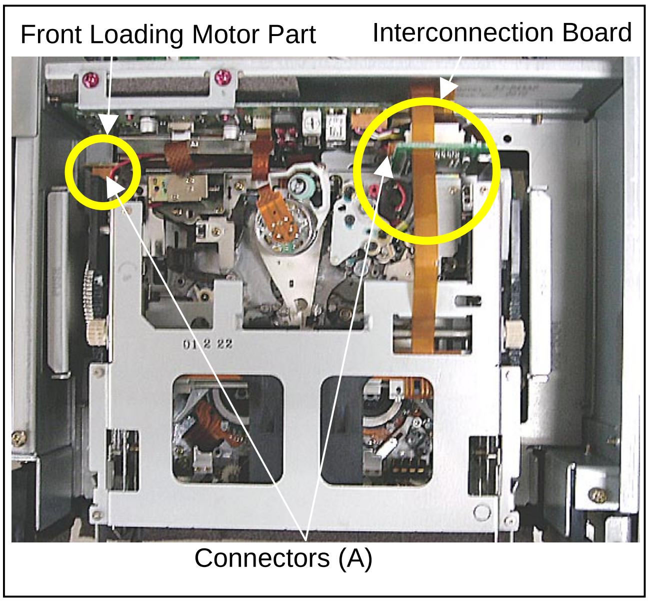
Notes: 1. When remove the Front Panel, slightly pull the Front panel for direction in arrow **(a)** (disconnect a connector P1) and then remove the Front Panel for direction in arrow **(b)**.
2. After installation of Front Panel, confirm that the Blinder Panel is moved up and down smoothly by hand.
3. Check the connector has been connected securely.

1-4. Removal of Front Loading Unit

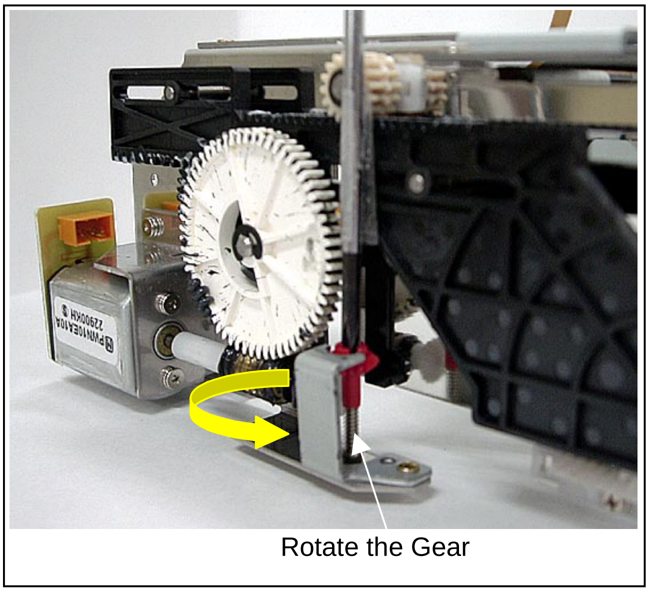
1. Remove the Front Panel. (Refer to item 1-3.)
2. Loosen 2 screws (A) and remove the Carriage support angle.



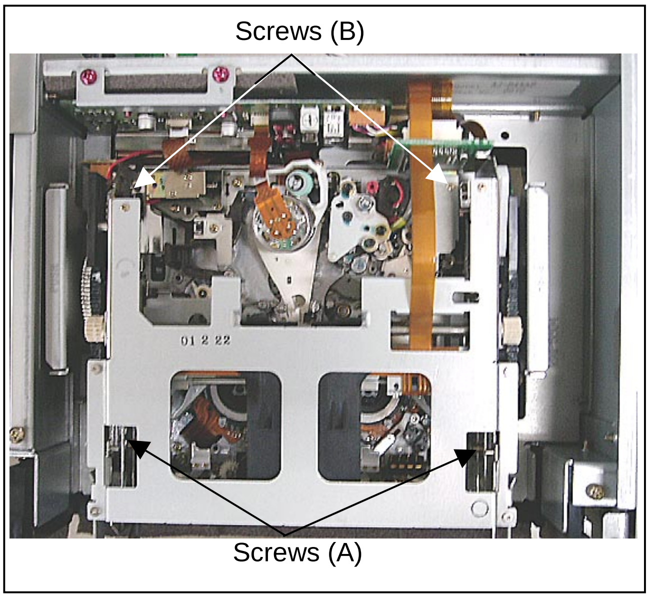
3. Disconnect 2 connectors (A) at Front Loading motor Board and the Interconnection Board.


Front Loading Motor Part
Interconnection Board
Connectors (A)

4. Push and rotate the red plastic gear in front of the Front loading motor counterclockwise until the screw (A) which is used to fix the Front Loading Unit can be seen.

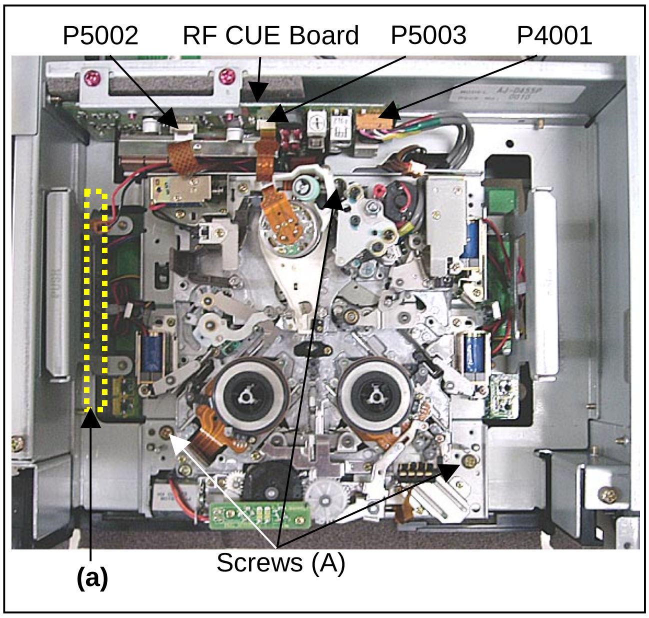

Rotate the Gear

5. Unscrew the 4 screws (A) and (B), then remove the Front Loading Unit.


Screws (B)
Screws (A)

1-5. Removal of Mechanism Unit

1. Remove the Front Loading Unit.
   (Refer to item 1-4.)
2. Disconnect 3 connectors (P4001, P5002, P5003) which are connect to RF CUE Board.
3. Unscrew the 3 screws (A) and remove the Mechanism Unit.

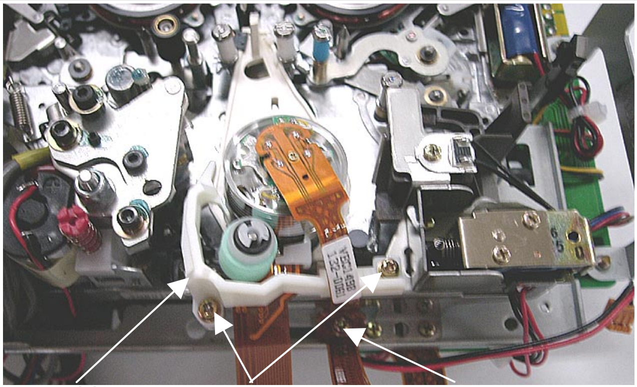

P5002
RF CUE Board
P5003
P4001
(a)
Screws (A)

Notes:

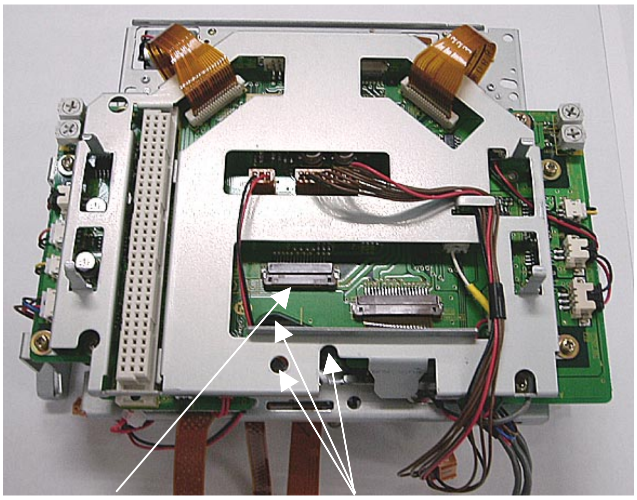
1. When remove the Mechanism Unit, the connector **(a)** which is connected to the Mother Board and Mechanism Unit is disconnected.
2. Check the connector has been connected securely.

1-6. Removal of Cylinder Unit

1. Remove the Mechanism Unit.
   Refer to item 1-5.
2. Unscrew a screw (A).
3. Unscrew the 2 screws (B) and remove the T1 Guide.

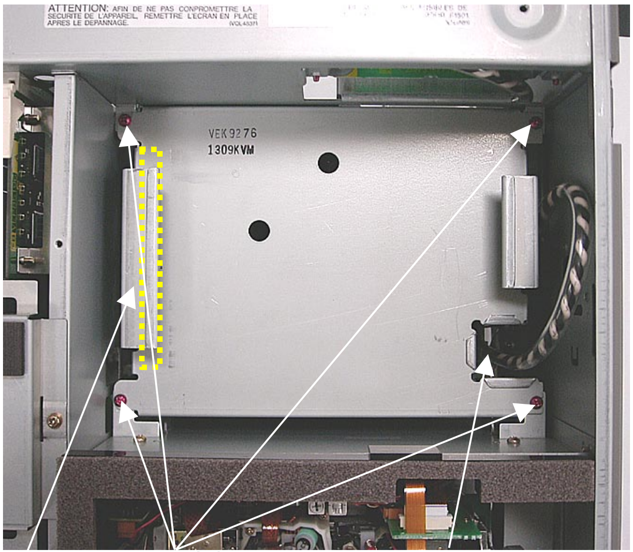

T1Guide
Screws (B)
Screw (A)

4. Disconnect a connector (C) which is connected to the Mech. I/F Board on the Mechanism bottom side.
5. Unscrew the 3 screws (D) which have spring, then remove the Cylinder Unit without touching any Mechanism parts.


Connectors (C)
Screws (D)

1-7. Removal of Power Supply Unit

1. Unscrew the 4 screws (A) and lift-up the Power Supply Unit.
2. Disconnect a connector (B) and remove the Power Supply Unit.

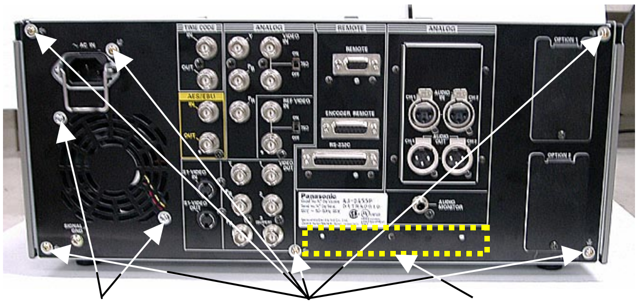

ATTENTION: AFIN DE NE PAS COMPROMETTRE LA SECURITE DE L'APPAREIL, REMETTRE L'ECRAN EN PLACE APRES LE DEPANNAGE.
VEK9276
1309KVM
(a)
Screws (A)
Connector (B)

Notes:

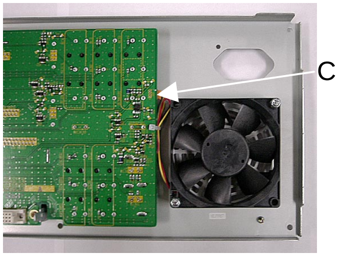
1. When remove the Power Supply Unit, the connector **(a)** which is connected to the Mother Board and Power Supply Unit is disconnected.
2. Check the connector has been connected securely.

1-8. Removal of Fan Motor

1. Unscrew the 6 screws (A) and remove the Rear Jack Panel.


Screws (B)
Screws (A)
(a)

2. Disconnect a connector P2 (C)
3. Unscrew the 2 screws (B) and remove the Fan Motor.


Connector P2 (C)

Notes:

1. When remove the Rear Jack Panel, the connector **(a)** which is connected to the Mother Board and Rear Jack Panel is disconnected.
2. Check the connector has been connected securely.

SECTION 3

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   2-3. Motor Torque Offset Adjustment ELE-2
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   4-5. Composite Y Level Adjustment ELE-13
   4-6. Composite Y Level Adjustment ELE-13
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- 5-11 Component Pb signal Level Adjustment ELE-24
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1. POWER SUPPLY UNIT

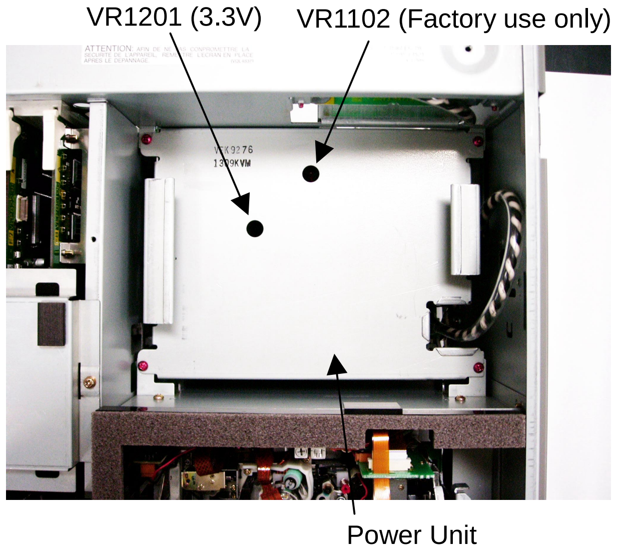
1-1. Power Supply Voltage Adjustment

BOARD	POWER UNIT
TP	TP6 (+3.3V) (on the extension board)
ADJ.	VR1201 (+3.3V)
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital Voltmeter
SPEC.	+3.35V ± 0.05V

1. Extend the Servo (F7) board with extension board.
2. Turns ON the power switch, and set to “EJECT” mode.
3. Connect Digital Voltmeter to TP6 on the extension board, and adjust VR1201 so that the DC voltage is in the specification.

<Note>

The VR1102 is for factory, use only.



2. SERVO

2-1. SERVO FG Offset Adjustment

BOARD	SERVO (F7)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	-----
SPEC.	-----

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the “SET” button to open the SERVO ADJUST MENU.
3. Select the **A01 FG DC ADJ**, and Press the “ ▶ ” button continuously until “OK” sign is displayed on the right side of A01 FG DC ADJ. (It takes 5-10 seconds.) (During automatic adjustment, the reel motor and brake solenoid are moving.)
4. Close the menu.

<Note>

1. When “NG” sign is displayed or becoming the “AUTO OFF”, do not insert the tape. Check the mechanism condition and servo circuit.
2. When the parts of mechanism is disassembled and assembled, before inserting a cassette tape, implement this adjustment.
3. When repairing or changing the mechanism (Capstan/Reel), Servo (F7) board, or Syscon (F6) board, implement this adjustment.

2-2. Reel Torque Gain Adjustment

BOARD	SERVO (F7)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Monitor TV
SPEC.	-----

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the “SET” button to open the SERVO ADJUST MENU.
3. Select the **A02:RL GAIN ADJ** by using the “▲” or “▼” button.
4. Press the “▶” button continuously until the two kind of numeric value displayed on the right side of **RL GAIN ADJ** goes off one time. Release the “▶” button when the both two new numeric value has been updated. (It takes 5-6 seconds.)
5. Perform the Item 4 again. And confirm the numeric value is changed to new value.
6. Close the menu.

<Note>

1. When the new numerical value isn't displayed, check the reel brake which wasn't turned while pressing the “▶” button.
2. Before “2-3. Motor Torque Offset Adjustment”, implement this adjustment.

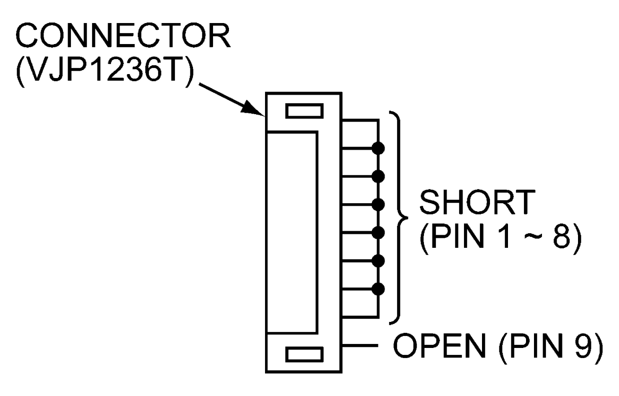
2-3. Motor Torque Offset Adjustment

BOARD	SERVO (F7)
TP	S,T REEL TABLE
ADJ.	SERVICE MENU
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	VFK1191 (Dial Torque Gauge) VFK1152 (Dial Torque Gauge Adaptor)
SPEC.	0.15 ± 0.02 cNm (15g-cm ± 2g-cm) (5 times average)

1. Remove the Front Loading Unit. (Refer to SEC2 Disassembly Procedures)
2. Connect the Carriage tool (see the following figure) to connector P1 which is coming from the MECH. I/F board to Carriage board of the front loading unit.
3. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
4. Select the **A00: SERVO ADJUSTS** and press the “SET” button to open the Servo Adjust menu.
5. Select the **A03: T TORQUE**.
6. Set a Dial Torque Gauge to top of Take-up Reel Table.
7. Press the STOP button and measure the value of Dial Torque Gauge 5 times, then calculate the average and adjust “T TORQUE” with EVR so that the average is in the specification.

Note: While pressing the STOP button, the REEL Table is rotated.

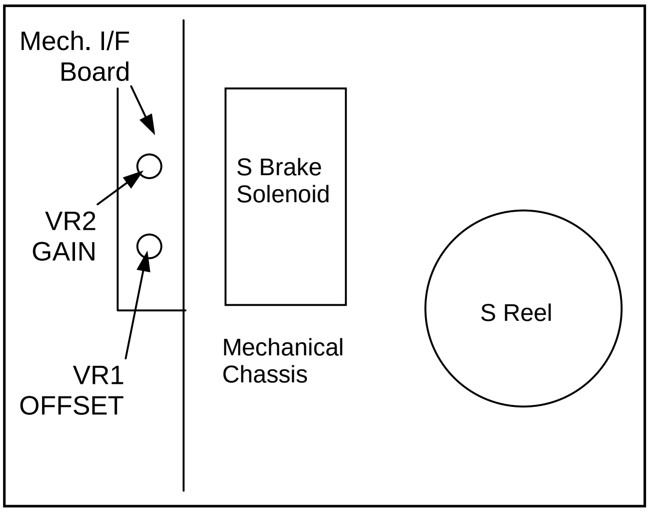
8. Select the item **A04: S TORQUE**.
9. Set a Dial Torque Gauge to top of Supply Reel Table.
10. Press the STOP button and measure the value of Dial Torque Gauge 5 times, then calculate the average and adjust “S TORQUE” with EVR so that the average is in the specification.



2-4. Tension Sensor Voltage Adjustment (1)

BOARD	SERVO (F7)
TP	TP201
ADJ.	VR1 (OFFSET) on the Mech. I/F board
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital voltmeter
SPEC.	2.5V ± 0.05V

1. Connect the Digital voltmeter to TP201.
2. Adjust the VR1 on the Mech. I/F board so that the DC voltage is in the specification.

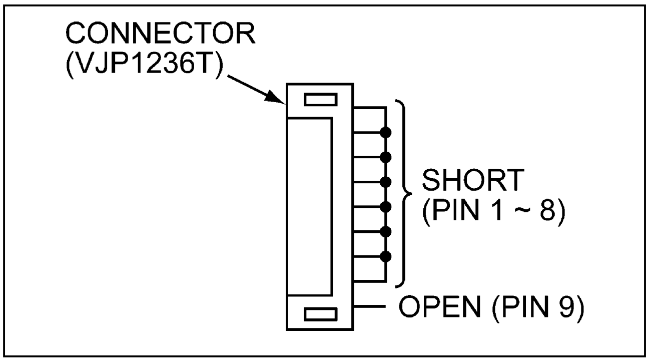

Mech. I/F Board
VR2 GAIN
VR1 OFFSET
S Brake Solenoid
Mechanical Chassis
S Reel

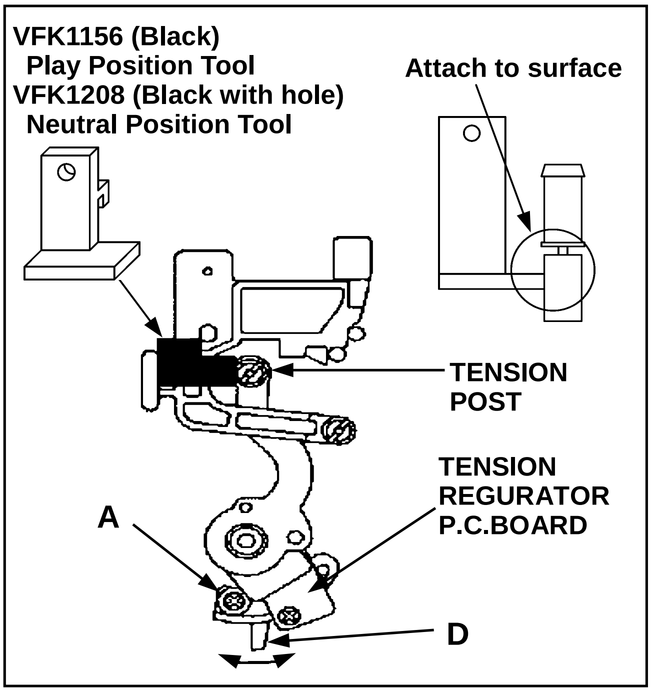
2-5. Tension Sensor Voltage Adjustment (2)

BOARD	SERVO (F7)
TP	TP201
ADJ.	VR2 (GAIN)
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital voltmeter, VFK1208 (Neutral Position Tool, Black with hole) VFK1156 (PLAY Position Tool, Black)
SPEC.	2.5V ± 0.05V

NOTE:
Do not use magnetized tweezers and screwdriver.
Do not touch the magnetize screwdriver to S-Reel FG magnet portion, while adjusting the lever (D) portion.

1. Remove the Front Loading Unit. (Refer to SEC2 Disassembly Procedures)
2. Connect the Carriage tool (see the following figure) to connector P1 which is coming from the MECH. I/F board to Carriage board of the front loading unit.
3. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
4. Select the **A00: SERVO ADJUST** and press the “SET” button to open the SERVO ADJUST MENU.
5. Select the **A08 TENSION**.
6. Install the VFK1208 (black with hole) as shown in figure.
7. Connect the Digital voltmeter to TP201.
8. Press the “ ▶ ” button, then display the ON sign at the right side of A08 TENSION. At the same time the loading is started.
9. Confirm the DC voltage at TP201 is in the specification. If it is not, adjust the sensor position as follows.
   Loosen the screw (A) and move the lever (D) with tweezers. After adjusting, press the “ ◀ ” button to set the unloading position.
10. Remove the VFK1208 (black with hole), and install the VFK1156 (Black) as same way as VFK1208.
11. Press the “ ▶ ” button to set the loading position.
12. Adjust the VR2 (GAIN) on the Mech. I/F board so that the DC voltage at TP201 is in the specification.

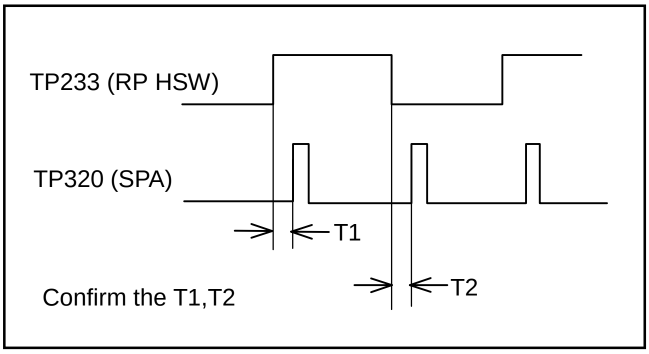

CONNECTOR
(VJP1236T)
SHORT
(PIN 1 ~ 8)
OPEN (PIN 9)


VFK1156 (Black)
Play Position Tool
VFK1208 (Black with hole)
Neutral Position Tool
Attach to surface
TENSION POST
TENSION REGURATOR P.C.BOARD
A
D

2-6. PG Shifter Adjustment

BOARD	SERVO (F7)
TP	TP233 (RP HSW) TP320 (SPA)
ADJ.	Service Menu
TAPE	VFM3580KM/KL
INPUT	-----
MODE	EJECT
M. EQ	Oscilloscope
SPEC.	T1, T2 = 126.4 ± 4µs

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the "SET" button to open the SERVO ADJUST MENU.
3. Select the **A05 PG SHIFT 25**.
4. Playback the color bar portions of the 25M alignment tape.
5. Press the "▶" button continuously until the numeric value displayed on the right side of PG shift 25 goes off one time. Release the "▶" button when the new numeric value has been updated.
6. Connect a scope to TP233 and TP320.
   Confirm the T1 and T2 are in the specification.
7. Close the menu.



3. RF/EQ (F8)

The adjustment of this section should be performed after adjusting the Servo (F7) board.

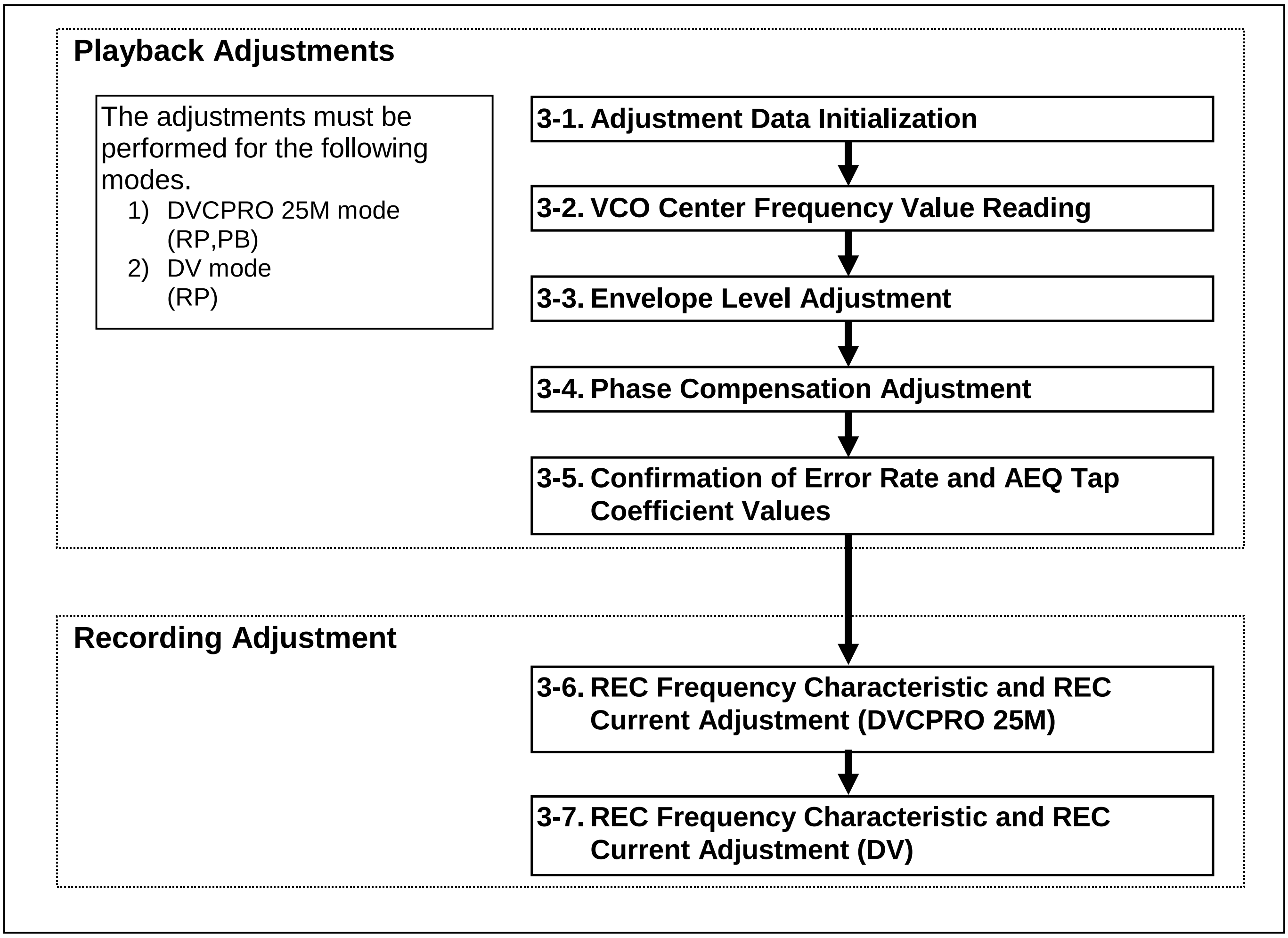
This adjustment mainly uses the Service Menu. The procedures for opening the menu, changing the settings and closing the menu are described below.

1. Opening the Service Menu
   a) Press the **"MENU"** button to open the set-up menu.
   b) Press the **"STOP"** button and **"EJECT"** button simultaneously and press the **"MENU"** button again.
   c) The Service Menu is superimposed on the VIDEO OUT 3 out put signal.

2. Changing the Setting
   Caution : The changing of the setting can only be performed when the tape is inserted.
   a) Press the **"▲ and/or ▼"** button and move the cursor (∗) to the desired setting or adjustment page and press the **"SET"** button to open the adjustment page.
   b) Press the **"▲ and/or ▼"** button and move the cursor (∗) to the desired setting or adjustment item and press the **"◀ and/or ▶"** button to change the setting value.

3. Closing the Service menu
   a) After the settings change is completed, press the MENU button to close the service menu.

Perform the adjustments of these items according to the following flowchart.


Playback Adjustments
3-1. Adjustment Data Initialization
3-2. VCO Center Frequency Value Reading
3-3. Envelope Level Adjustment
3-4. Phase Compensation Adjustment
3-5. Confirmation of Error Rate and AEQ Tap Coefficient Values
Recording Adjustment
3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)
3-7. REC Frequency Characteristic and REC Current Adjustment (DV)

The adjustments must be performed for the following modes.
1) DVCPRO 25M mode (RP,PB)
2) DV mode (RP)

3-1. Adjustment Data Initialization

Initialize the adjustment values for the following items before starting the adjustment. (It may not be possible to obtain the best values if the adjustment is performed without the initialized values.)

1. Insert the DVCPRO alignment tape. (VFM3580KM or (L)).
2. Open the Service Menu.
3. Open the **B00: RF ADJUST** in the Service Menu.
4. Open the **C00: PRO ADJUST** in the Service Menu.
5. Open the **C-4 DEFAULT** in the Service Menu.
6. Select **INIT LOAD**. And press the SET button to complete the initialization of the 25M mode adjustment values.
7. Press the MENU button two times and return to the RF ADJUST menu.
8. Insert the DV adjustment tape.
9. Open the **D00: DV ADJUST** in the Service Menu.
10. Open the **D-4 DEFAULT** in the Service Menu.
11. Select **INIT LOAD** and press the SET button to complete the initialization of the DV mode adjustment values.

3-2. VCO Center Frequency Value Reading

BOARD	RF/EQ (F8)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	-----
SPEC.	-----

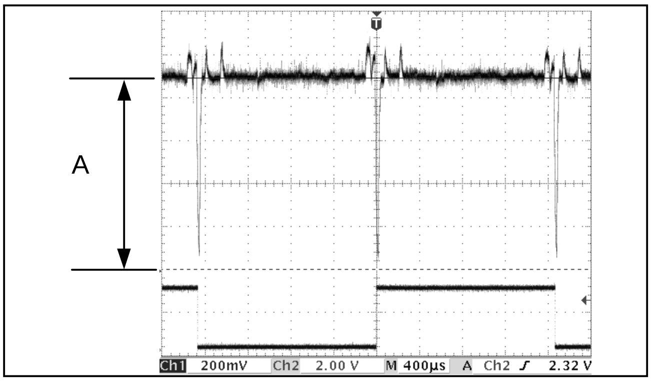
<Caution>
Set to the EJECT mode before performing the following operations.
(If the EJECT mode is not set and these operations described below are performed in the PLAY and REC mode, item 3-5 Confirmation of Error Rate and AEQ Tap Coefficient Values may be wrong. In this case, perform the procedures described in item 3-1. Adjustment Data Initialization.)

1. Open the Service Menu.
2. Open the **B00: RF ADJUST** in the Service Menu.
3. Open the **C00: PRO ADJUST** in the Service Menu.
4. Open the **C-2: RP ADJUST** in the Service Menu.
5. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
6. Press the SET button to set the **C: 19 VCO** adjustment value automatically.
7. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
8. Press the MENU button to return to the **C00: PRO ADJUST** menu.
9. Open the **C-3: PB ADJUT** in the Service Menu.
10. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
11. Press the SET button to set the **C19: VCO** adjustment value automatically.
12. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
13. Press the **“MENU”** button two times and return to the **RF ADJUST** menu.
14. Open **D00: DV ADJUST** in the Service Menu.
15. Open **D-2: RP ADUJST** in the Service Menu.
16. Select **D32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
17. Press the **SET** button to set the **D19: VCO** adjustment value automatically.
18. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.

3-3. Envelope Level Adjustment

BOARD	RF/EQ (F8)
TP	TP20, TP10, TP2 (Trigger)
ADJ.	Service Menu
TAPE	525(NTSC): VFM3580KM (L)/VFM3010EDS Alignment Tape (Color Bar)
INPUT	Color bar
MODE	PLAY
M. EQ	Oscilloscope
SPEC.	+0.8VDC ± 0.1VDC

1. Extend the RF/EQ (F8) board.
2. Connect the oscilloscope CH1 to TP20 (500mV/DIV, 1msec) and CH2 to TP2 (5V/DIV, 1msec). Set the Trigger channel to CH2. And set the 20MHz BW LIMIT to ON.
3. Play back the alignment tape (VFM3580KM (L)).
4. Open **B00 RF ADJUST** in the Service Menu.
5. Open **C00 PRO ADJUST** in the Service Menu.
6. Open **C-2: RP ADJUST** in the Service Menu.
7. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP20 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
8. Press the **"SET"** button when the adjustment is completed.
9. Change the connection of the oscilloscope CH1 to TP10 (500mV/DIV, 1msec).
10. Playback the alignment tape (VFM3580KM (L))
11. Open **B00 RF ADJUST** in the Service Menu.
12. Open **C00 PRO ADJUST** in the Service Menu.
13. Open **C-3: PB ADJUST** in the Service Menu.
14. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP10 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
15. Press the **"SET"** button when the adjustment is completed.
16. With the same connection of the oscilloscope, playback the DV alignment tape (VFM3010EDS).
17. Open **B00 RF ADJUST** in the Service Menu.
18. Open **D00 DV ADJUST** in the Service Menu.
19. Open **D-2: RP ADJUST** in the Service Menu.
20. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP10 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
21. Press the **"SET"** button when the adjustment in completed.



3-4. Phase Compensation Adjustment

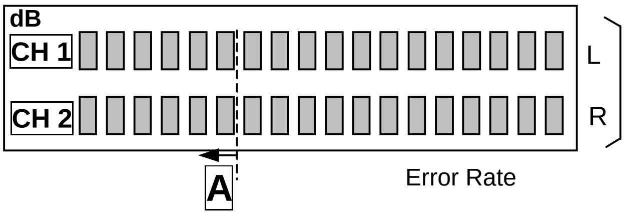
BOARD	RF/EQ (F8)
TP	Audiometer (Error Rate Display)
ADJ.	Service Menu.
TAPE	525(NTSC): VFM3580KM (L)/VFM3010EDS Alignment Tape (Color Bar)
INPUT	Color bar
MODE	PLAY
M. EQ	Oscilloscope
SPEC.	Error Rate = Minimum

1. Install to the circuit board that was extended in the previous adjustment item.
2. Insert the DVCPRO (VFM3580KM (L)) alignment tape and play it back.
3. Open the Service Menu.
4. Open the **B00: RF ADJUST** in the Service Menu.
5. Open the **C00: PRO ADJUST** in the Service Menu.
6. Open the **C-2: RP ADJUST** in the Service Menu.
7. Select the **C40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
8. Select **C41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
9. Adjust the **C01: RF PHS L** and **C02: RF PHS R** so that the error rate is at the minimum level.
   (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
   Press the **"SET"** button when the adjustment is completed.
10. Press the **"MENU"** button to return to the **C00: PRO ADJUST** in the Service Menu.
11. Open the **C-3: PB ADJUST** in the Service Menu.
12. Select the **C40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
13. Select **C41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
14. Adjust the **C01: RF PHS L** and **C02: RF PHS R** so that the error rate is at the minimum level.
    (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
    Press the **"SET"** button when the adjustment is completed.
15. Insert the DV alignment tape (VFM3010EDS) and play it back.
16. Open the **D00: DV ADJUST** in the Service Menu.
17. Open the **D-2: RP ADJUST** in the Service Menu.
18. Select the **D40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
19. Select the **D41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
20. Adjust the **D01: RF PHS L** and **D02: RF PHS R** so that the error rate is at the minimum level.
    (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
    Press the **"SET"** button when the adjustment is completed.

3-5. Confirmation of Error Rate and AEQ Tap Coefficient Values

BOARD	RF/EQ (F8)
TP	Audiometer (Error Rate Display).
ADJ.	Service Menu
TAPE	525(NTSC): VFM3580KM (L)/VFM3010EDS Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	-----
SPEC.	-----

1. Insert the DVCPRO alignment tape (VFM3580KM (L)) and play it back.
2. Open the Service Menu.
3. Open the **B00: RF ADJUST** in the Service Menu.
4. Open the **C00: PRO ADJUST** in the Service Menu.
5. Open the **C-2: RP ADJUST** in the Service Menu.
6. Select the **C44: ERROR MODE** and change the setting “FAST” to **“SLOW”**.
7. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **“A”** shown in the figure.
8. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
9. Press the **“SET”** button to set the AEQ tap coefficient automatically.
10. Select the **C32 IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
11. Press the **“MENU”** button to return to the **C00: PRO ADJUST** menu.
12. Open the **C-3: PB ADJUST** in the Service Menu.
13. Select the **C44: ERROR MODE** and change the setting from “OFF” to **“SINGLE”**.
14. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **“A”** shown in the figure.
15. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
16. Press the **“SET”** button to set the AEQ tap coefficient automatically.
17. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
18. Insert the DV alignment tape (VFM3010EDS) and play it back.
19. Open the **D00: DV ADJUST** in the Service Menu.
20. Open the **D-2: RP ADJUST** in the Service Menu.
21. Select the **D44: ERROR MODE** and change the setting from “FAST” to **“SLOW”**.
22. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **“A”** shown in the figure.
23. Select the **D32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
24. Press the **“SET”** button to set the AEQ tap coefficient automatically.
25. Select the **D31: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.



For changing the VIDEO/AUDIO error rate display, press the “DIAG” button.

CH1 Light Up : Audio Error Rate Display

CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

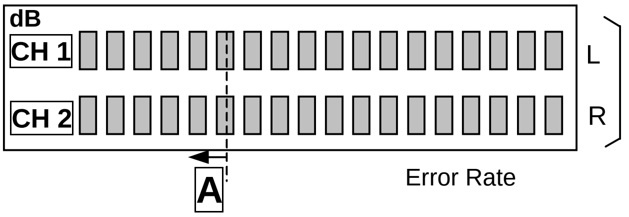
3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)

BOARD	EQ MAIN (H2)
TP	TP6, TP2 (Trigger) Audiometer (Error Rate Display)
ADJ.	Service Menu
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar) DVCPRO Recording tape
INPUT	Color bar
MODE	PLAY
M. EQ	Spectrum analyzer
SPEC.	-----

1. Set a spectrum analyzer as follows.

Parameter	25M Mode
REF LEVEL	-----
ATTEN	10dB
/DIV	2dB
START FREQ	0MHz
STOP FREQ	40MHz
RES BW	1MHz
VBW	1KHz
SWEEP TIME	150ms
V AVG	OFF
TRIG	EXT

2. Extend the RF/EQ (F8) Board. Connect the spectrum analyzer INPUT to **TP6** and the external trigger to **TP2**.
3. Insert the recording tape and record the color bar signal.
4. Open the Service Menu.
5. Open the **B00: RF ADJUST**.
6. Open the **C00: PRO ADJUST**.
7. Open the **C-1: REC ADJUST**.
8. Set the numerical value of **C01: REC CURR L** and **C03: REC CURR R** as follows.
   C01: REC CURR L→ +120
   C03: REC CURR R→ -120
9. Read (memorize) the spectrum at the confidence playback into the **TRACE B**, and continue to observe it with the **TRACE A**.
10. Adjust the **C01: REC CURR L** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **5MHz** portion is in the following specification.
    TRACE B – TRACE A : 1dB +1dB/-0dB.
    (After adjustment, memorize the adjustment value of the C01: REC CURR L.)
11. Adjust the **C02: REC FREQ L** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **20MHz** portion is in the following specification.
    TRACE B – TRACE A : 0dB +/-1dB.
12. Set the numerical value of **C01: REC CURR L** and **C03: REC CURR R** as follows.
    C01: REC CURR L→ -120
    C03: REC CURR R→ +120
13. Read (memorize) the spectrum at the confidence playback into the **TRACE B**, and continue to observe it with the **TRACE A**.
14. Adjust the **C03: REC CURR R** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **5MHz** portion is in the following specification.
    TRACE B – TRACE A : 1dB +1dB/-0dB.
    (After adjustment, memorize the adjustment value of the C03: REC CURR R.)
15. Adjust the **C04: REC FREQ R** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **20MHz** portion is in the following specification.
    TRACE B – TRACE A : 0dB +/-1dB.
16. For the **C01: REC CURR L** value and the **C03: REC CURR R** value that have been pre-adjusted in the steps 10 and 14, add +50 to them respectively for readjustment (fine adjustment).
17. Insert the recording tape and record the color bar signal approximately one minute and play it back.
18. Check that the error rate is less than **"A"** level of the figure. (When confirm the error rate, select **C44: ERROR MODE** and change the setting from **"FAST"** to **"SLOW"**.)
    Read (memorize) the playback spectrum into the **TRACE B**.
19. Insert the DVCPRO alignment tape (VFM3580KM (L)) and play it back.
20. Confirm that the level difference between the **TRACE B** (Memorized self-recording playback spectrum) and **TRACE A** (Alignment tape playback spectrum) at **5 MHz** is in the following specification.
    TRACE B – TRACE A : 0 dB +/- 2dB.



For changing the VIDEO/AUDIO error rate display, press the "DIAG" button.

CH1 Light Up : Audio Error Rate Display

CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

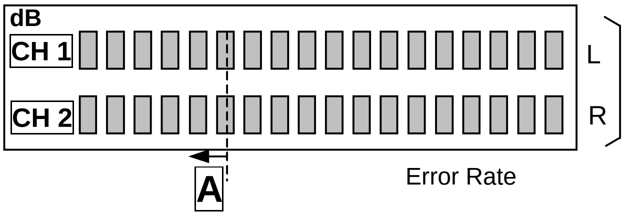
3-7. REC Frequency Characteristic and REC Current Adjustment (DV)

BOARD	EQ MAIN (H2)
TP	TP6, TP2 (Trigger) Audiometer (Error Rate Display)
ADJ.	Service Menu
TAPE	525(NTSC): VFM3010EDS Alignment Tape (Color Bar) DV Recording tape
INPUT	Color bar
MODE	PLAY
M. EQ	Spectrum analyzer
SPEC.	-----

1. Set a spectrum analyzer as follows.

Parameter	25M Mode
REF LEVEL	-----
ATTEN	10dB
/DIV	2dB
START FREQ	0MHz
STOP FREQ	40MHz
RES BW	1MHz
VBW	1KHz
SWEEP TIME	150ms
V AVG	OFF
TRIG	EXT

2. Extend the RF/EQ (F8) Board. Connect the spectrum analyzer INPUT to **TP6** and the external trigger to **TP2**.
3. Insert the DV recording tape and record the color bar signal.
4. Open the Service menu.
5. Open the **B00; RF ADJUST**.
6. Open the **D00: DV ADJUST**.
7. Open the **D-1: REC ADJUST**.
8. For the **C02: REC FREQ L** value and the **C04: REC FREQ R** value that have been adjusted in the steps of “3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)”, add **+40** to them respectively for setting to the **D02: REC FREQ L** and the **D04: REC FREQ R**. (If the value exceeds +127 after addition, set to +120.)
9. Set the **D01: REC CURR L** and **D03: REC CURR R** to +20.
10. Insert the DV recording tape and record the color bar signal approximately one minute and play it back.
11. Check that the error rate is less than **“A”** level of the figure. (When confirm the error rate, select **D44: ERROR MODE** and change the setting from **“FAST”** to **“SLOW”**.)
    Read (memorize) the playback spectrum into the **TRACE B**.
12. Insert the DV alignment tape (VFM3010EDS) and play it back.
13. Confirm that the level difference between the **TRACE B** (Memorized self-recording playback spectrum) and **TRACE A** (Alignment tape playback spectrum) at **5 MHz** is in the following specification.
    TRACE B – TRACE A : 0 dB +/- 2dB.



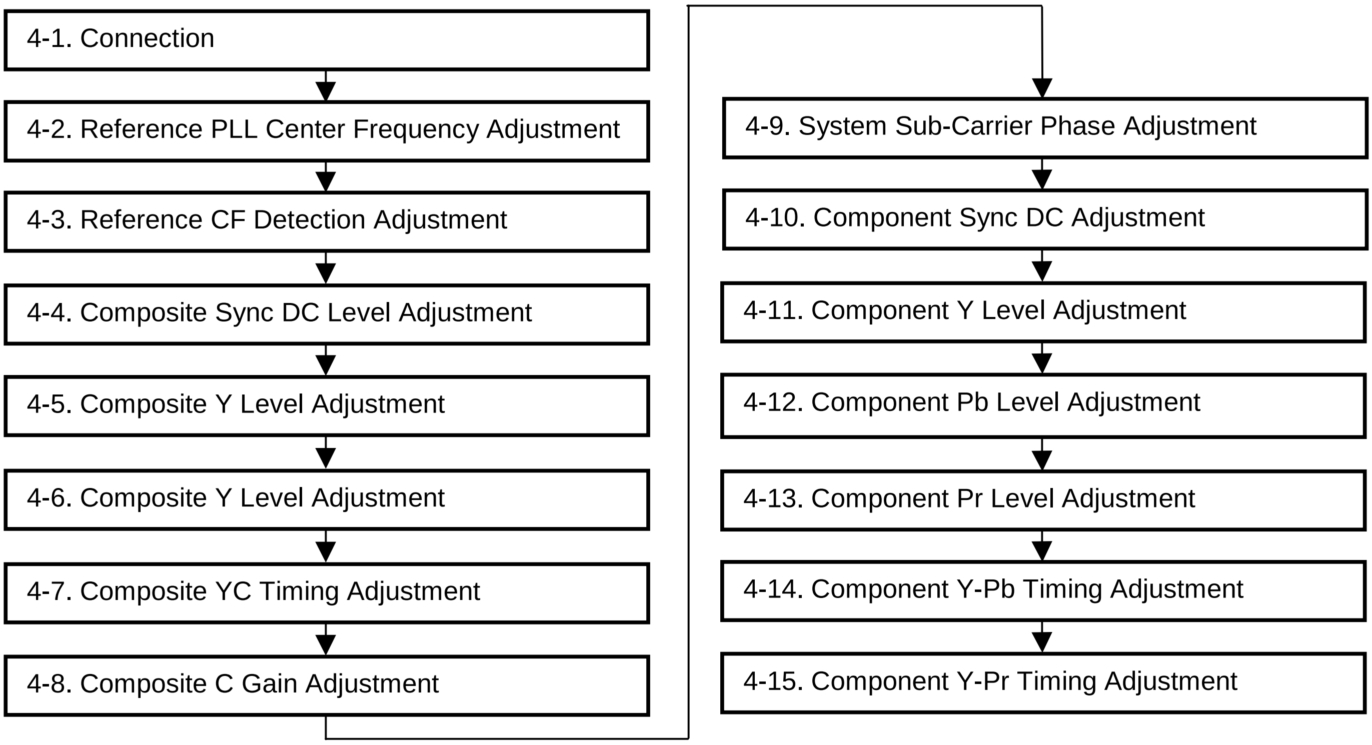
For changing the VIDEO/AUDIO error rate display, press the “DIAG” button.

CH1 Light Up : Audio Error Rate Display

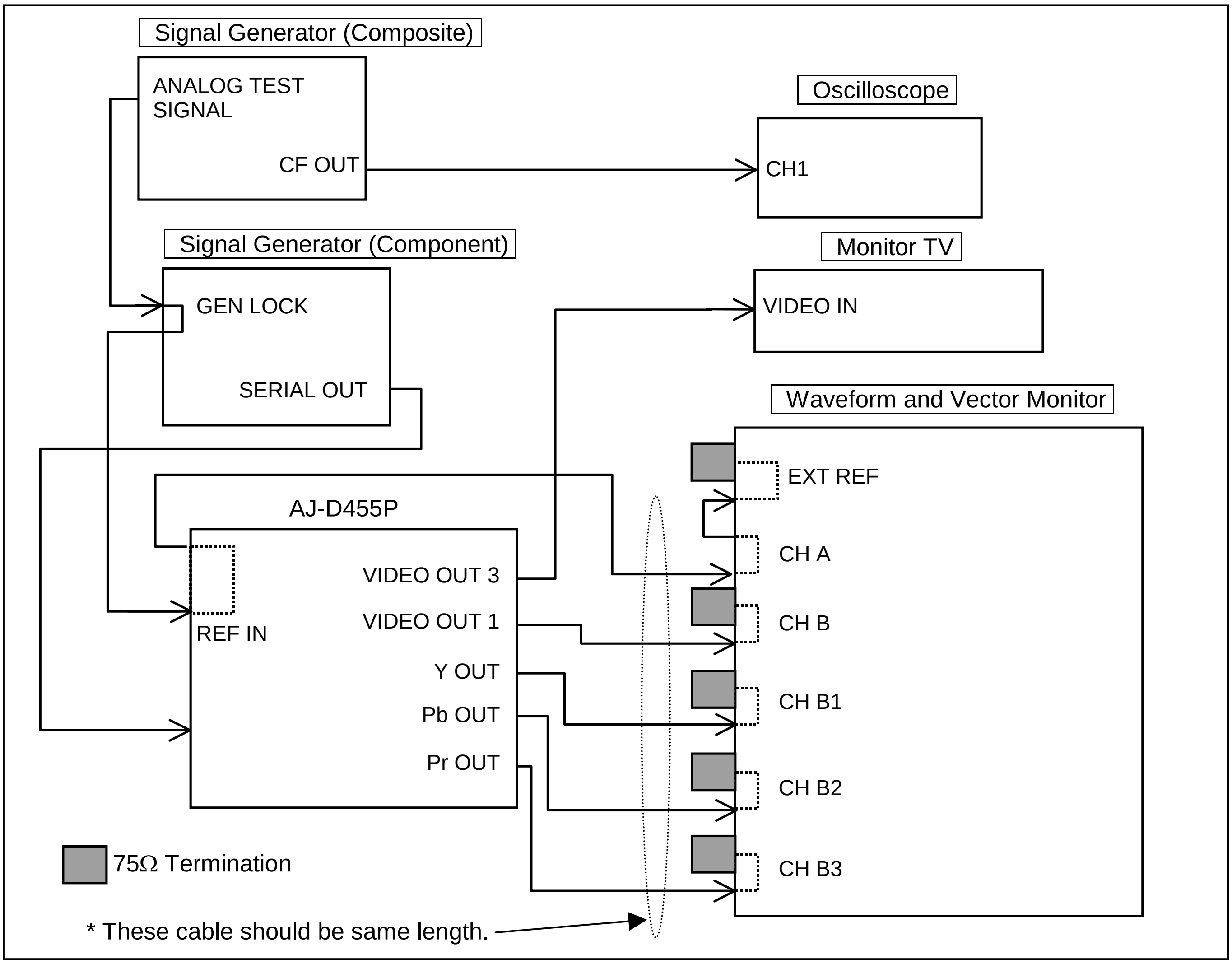
CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

4. V OUT (F2)


4-1. Connection
4-2. Reference PLL Center Frequency Adjustment
4-3. Reference CF Detection Adjustment
4-4. Composite Sync DC Level Adjustment
4-5. Composite Y Level Adjustment
4-6. Composite Y Level Adjustment
4-7. Composite YC Timing Adjustment
4-8. Composite C Gain Adjustment
4-9. System Sub-Carrier Phase Adjustment
4-10. Component Sync DC Adjustment
4-11. Component Y Level Adjustment
4-12. Component Pb Level Adjustment
4-13. Component Pr Level Adjustment
4-14. Component Y-Pb Timing Adjustment
4-15. Component Y-Pr Timing Adjustment

4-1. Connection


Signal Generator (Composite)
ANALOG TEST SIGNAL
CF OUT
Oscilloscope
CH1
Signal Generator (Component)
GEN LOCK
SERIAL OUT
Monitor TV
VIDEO IN
Waveform and Vector Monitor
EXT REF
CH A
CH B
CH B1
CH B2
CH B3
AJ-D455P
REF IN
VIDEO OUT 3
VIDEO OUT 1
Y OUT
Pb OUT
Pr OUT
75Ω Termination

* These cable should be same length.

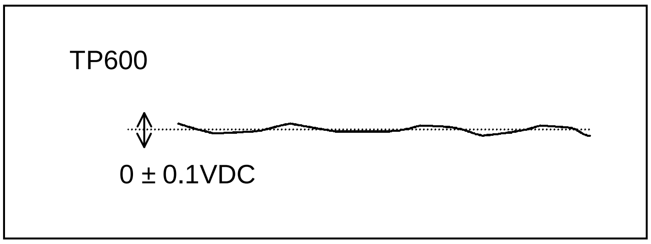
4-2. Reference PLL Center Frequency Adjustment

BOARD	V OUT (F2)
TP	TP600 (VCO)
ADJ.	VC600 (FREQ ADJ)
TAPE	-----
INPUT	REF VIDEO IN Analog Composite Signal (75% Color Bar with 7.5% Set-Up)
MODE	-----
M. EQ	Oscilloscope
SPEC.	DC Level: 0 ± 0.1VDC

1. Adjust VC600 so that the DC voltage at TP600 is in the specification.

<Note>

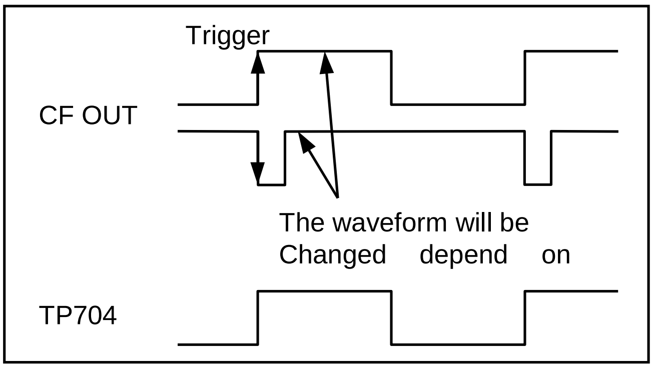
When the hand and so on approach too much near VC600 in adjustment, the DC voltage sometimes shifts.


TP600
0 ± 0.1VDC

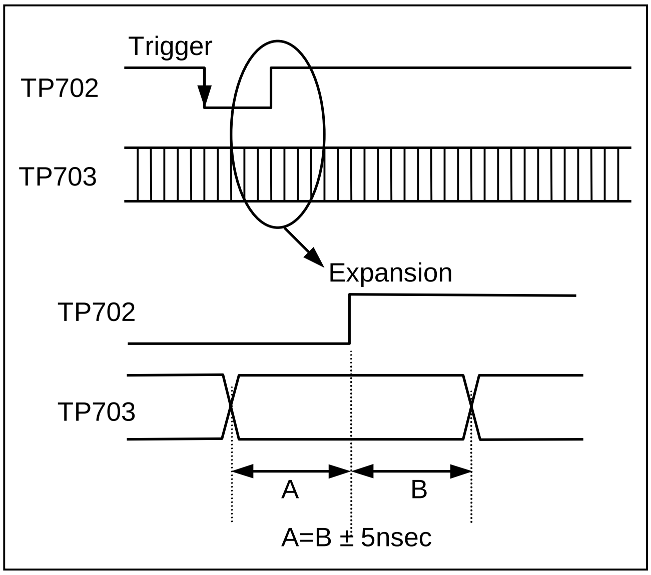
4-3. Reference CF Detection Adjustment

BOARD	V OUT (F2)
TP	Composite Signal CF OUT, TP704 (CF) TP702 (CF_TP2), TP703 (CF_TP1)
ADJ.	VR560 (SCH DET)
TAPE	-----
INPUT	REF VIDEO IN Analog Composite Signal (75% Color Bar with 7.5% Set-Up)
MODE	-----
M. EQ	Oscilloscope
SPEC.	See Figure, A=B ± 5nsec

1. Connect the oscilloscope CH1 to the CF output of composite signal generator and CH2 to TP704.
2. Adjust VR560 so that the phase is synchronized between CF pulses and TP704 as shown in figure.
   And confirm that the "SCH_ON (C-1)" LED on the board is turned on.


Trigger
CF OUT
The waveform will be Changed depend on
TP704

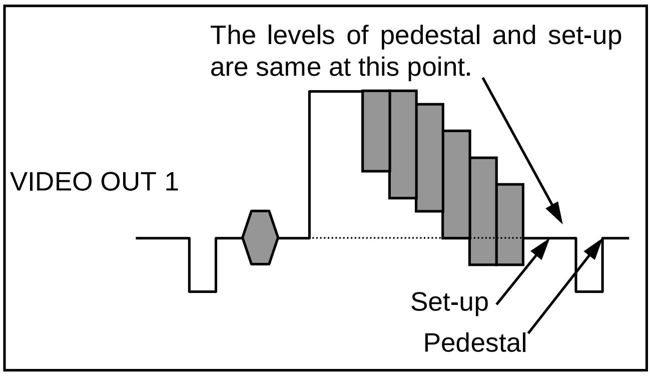
3. Connect the oscilloscope CH1 to TP702 and CH2 to TP703.
4. Expand (delay) the rising edge of TP702.
5. Slowly and slightly rotate VR560 so that the rising edge of TP702 is positioned at the center of cross point between A and B of waveform at TP703.


Trigger
TP702
TP703
Expansion
TP702
TP703
A
B
A=B ± 5nsec

4-4. Composite Sync DC Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR452 (ENC SYNC DC)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	------
MODE	PLAY
M. EQ	Analog WFM
SPEC.	SET-UP LEVEL = PEDESTAL LEVEL ± 1 IRE

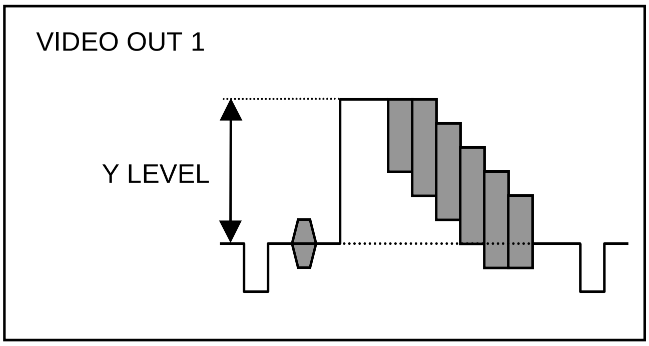
1. Open the SERVICE MENU.
2. Open the **F00: VIDEO ADJUST** in the Service Menu.
3. Set the **F11 V SETUP** to **ON**.
4. Open the SET-UP MENU.
5. Set the **613 SETUP (CMPST OUT)** to **THRU**.
6. Play back the alignment tape at the color bar portion.
7. Adjust VR452 so that the set-up level is the same level as the pedestal level.


The levels of pedestal and set-up are same at this point.
VIDEO OUT 1
Set-up
Pedestal

4-5. Composite Y Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR453 (ENC Y LEV)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y Level = 100 ± 1 IRE

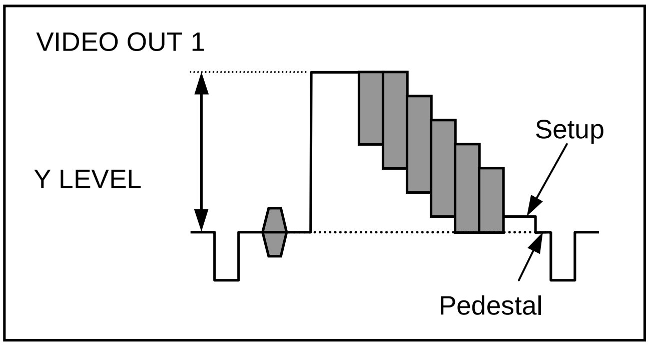
1. Play back the alignment tape at the color bar portion.
2. Adjust VR453 so that the Y level is in the specification.


VIDEO OUT 1
Y LEVEL

4-6. Composite Y Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR451 (SETUP)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y Level = 100 ± 1 IRE

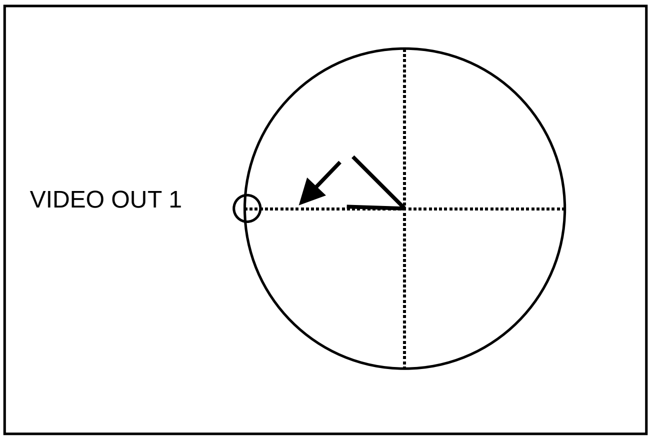
1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPST OUT)** to **ADD**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR451 so that the Y level is in the specification.


VIDEO OUT 1
Y LEVEL
Setup
Pedestal

4-7. Composite YC Timing Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR456 (ENC C DL)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM with SCH meter
SPEC.	SCH = 0 ± 1°

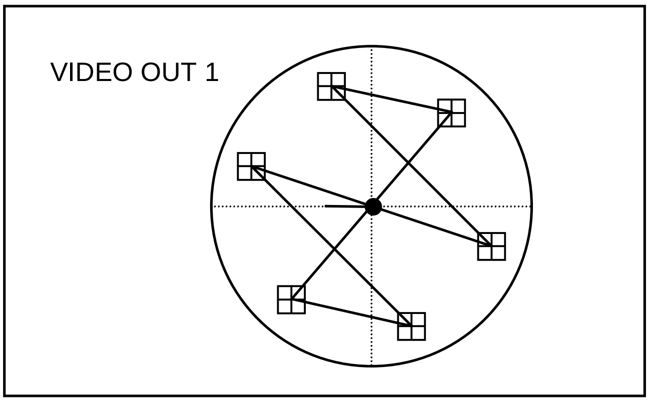
1. Adjust VR456 so that the SCH of VIDEO OUT 1 signal is in the specification.



4-8. Composite C Gain Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1
ADJ.	VR455 (ENC C LEV)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Vector Scope
SPEC.	All vector dots are in the inner box.

1. Set the burst position on the vector scope at correct position.
2. Adjust VR455 so that the all vector dots are in the inner box as shown in figure.

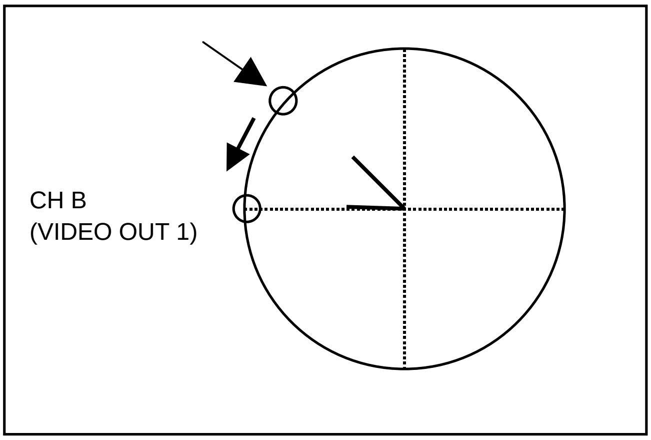


4-9. System Sub-Carrier Phase Adjustment

BOARD	V OUT (F2)
TP	REF IN (CH A), VIDEO OUT 1 (CH B)
ADJ.	VR600 (SYS SC)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM with SCH meter
SPEC.	SCH = 0 ± 1°

1. Adjust VR600 so that the SCH of the VIDEO OUT 1 (CHB) is same as EXT-REF-IN (CHA).

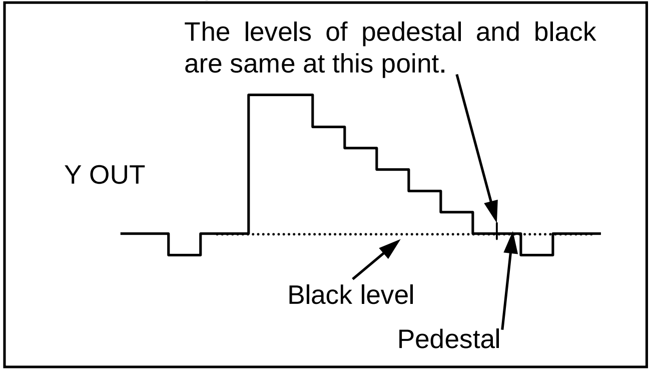
<Note>
1. Confirm that the SCH indicator should be turned on when reference signal is inputted.
2. Set the WFM to SCH mode, and set the EXT reference mode.
   Observe the Reference signal (CHA) and adjust the PHASE VR of the WFM so that the SCH is correct portion before adjusting the VR600 as shown in figure.



4-10. Component Sync DC Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1)
ADJ.	VR301 (SYNC DC)
TAPE	525 (NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	SET-UP LEVEL = PEDESTAL LEVEL ± 5mV

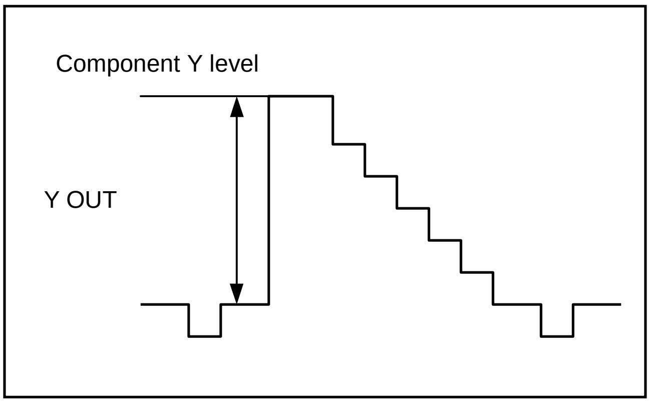
1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPNT OUT)** to **THRU** and **620 Pb/Pr OUT LV** to **βCAM**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR301 so that the black level is the same level as the pedestal level.


The levels of pedestal and black are same at this point.
Y OUT
Black level
Pedestal

4-11. Component Y Level Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1)
ADJ.	VR402 (Y LEV)
TAPE	525 (NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y level: 714 ± 5mV

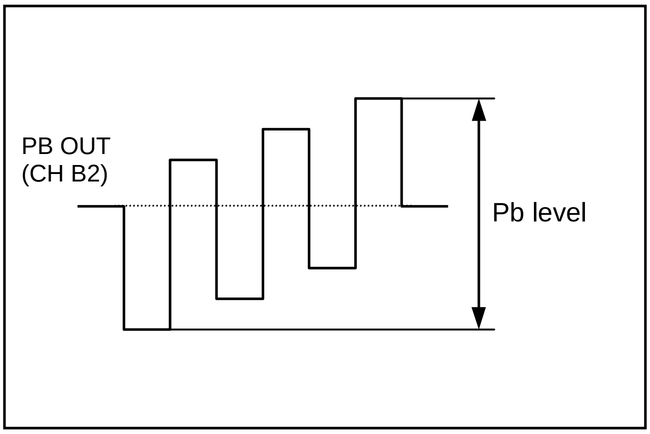
1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPNT OUT)** to **THRU** and **620 Pb/Pr OUT LV** to **βCAM**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR402 so that the Y level is in the specification.


Component Y level
Y OUT

4-12. Component Pb Level Adjustment

BOARD	V OUT (F2)
TP	Pb OUT (CH B2)
ADJ.	VR400 (PB LEV)
TAPE	525 (NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Pb level : 1009 ± 5mV

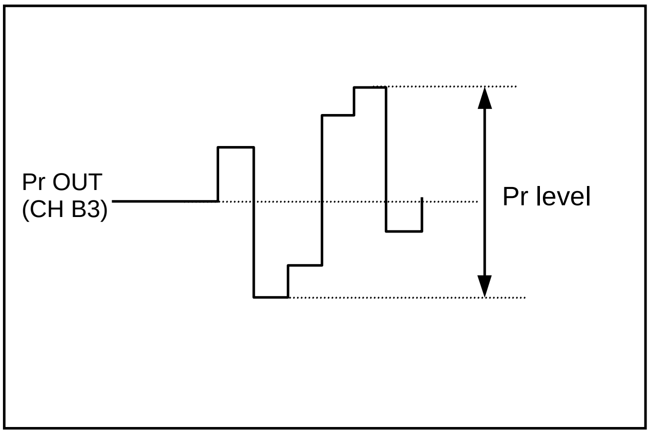
1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPNT OUT)** to **THRU** and **620 Pb/Pr OUT LV** to **βCAM**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR400 so that the Pb level is in the specification.



4-13. Component Pr Level Adjustment

BOARD	V OUT (F2)
TP	Pr OUT (CH B3)
ADJ.	VR401 (Pr LEV)
TAPE	525 (NTSC): VFM3580KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Pr level : 1009 ± 5mV

1. Open the SET-UP MENU.
2. Set the **613 SETUP (CMPNT OUT)** to **THRU** and **620 Pb/Pr OUT LV** to **βCAM**.
3. Play back the alignment tape at the color bar portion.
4. Adjust VR401 so that the Pr level is in the specification.



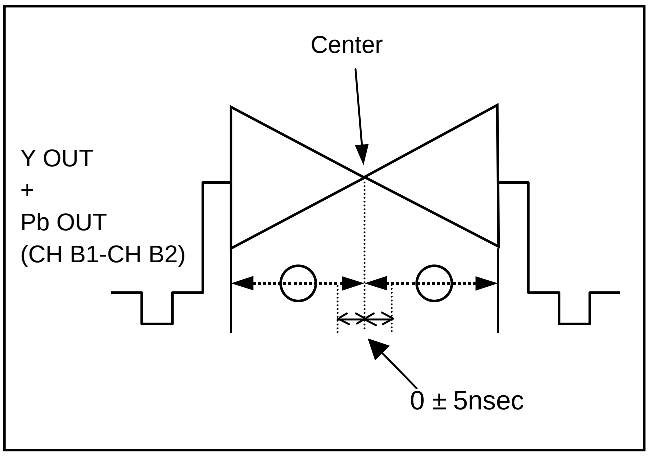
4-14. Component Y-Pb Timing Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1), Pb OUT (CH B2)
ADJ.	VR302 (Pb DL)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Bowtie portion)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Y Pb Timing : 0 ± 5nsec

1. Adjust VR302 so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).

<Note>

Incase of WFM does not have “Bowtie mode” (Y-Pb timing adjustment mode), if the oscilloscope has “ADD” and “INVERT” switch, it is possible to make the following waveform by those switch.



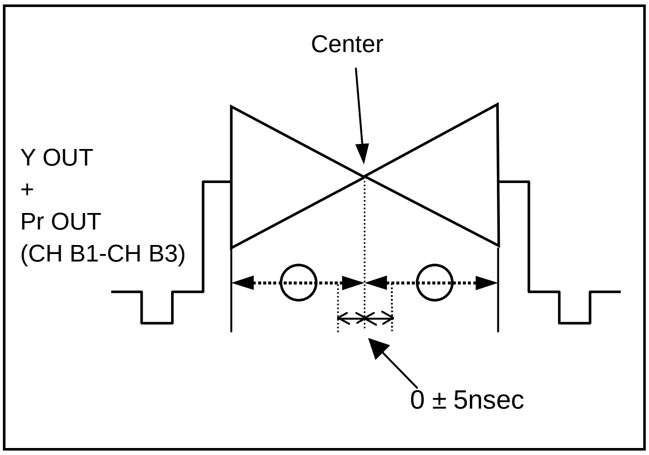
4-15. Component Y-Pr Timing Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1), Pr OUT (CH B3)
ADJ.	VR303 (Pr DL)
TAPE	525(NTSC): VFM3580KM (L) Alignment Tape (Bowtie portion)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Y Pr Timing : 0 ± 5nsec

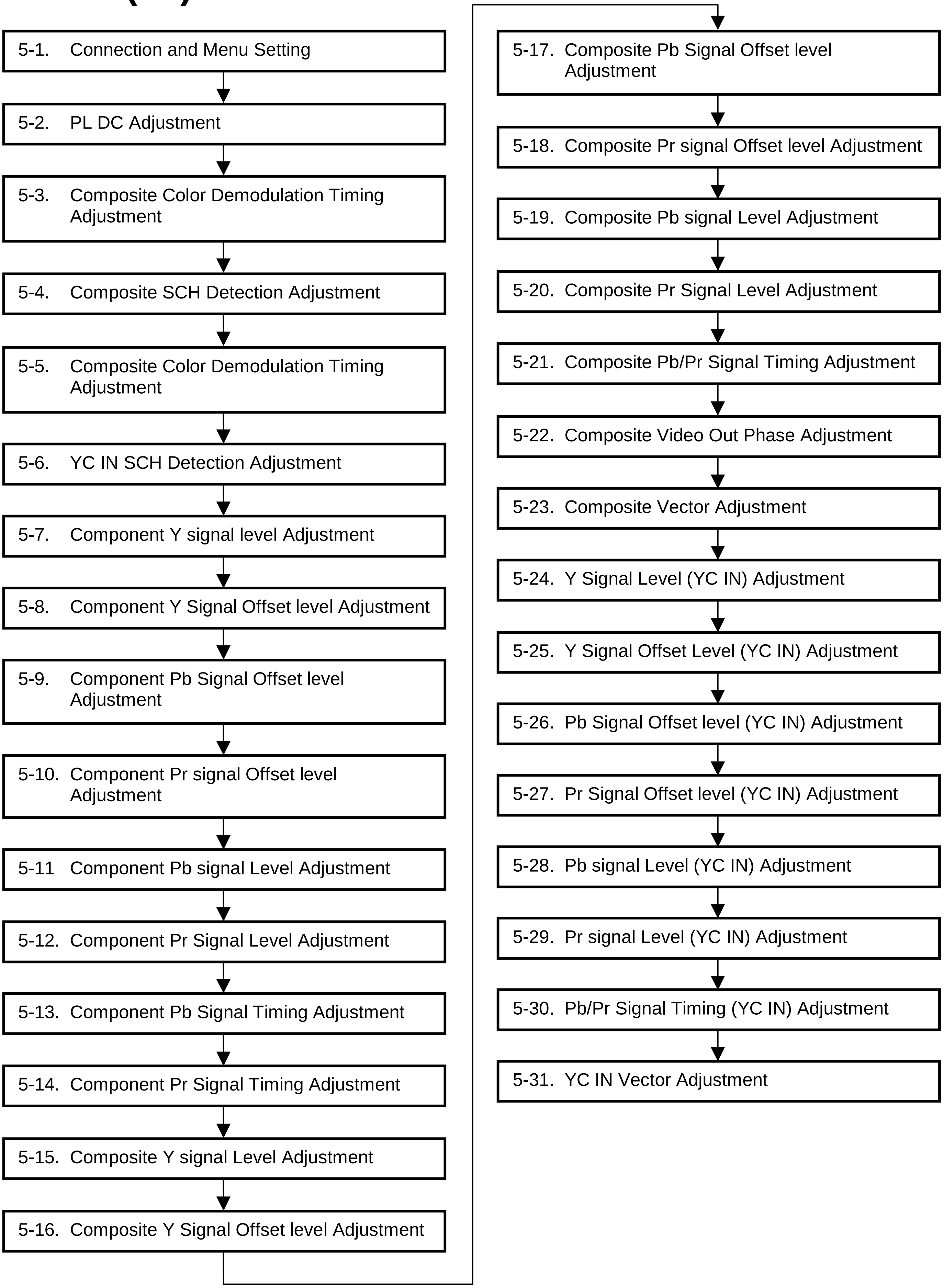
1. Adjust VR302 so that the crossing point of the Bowtie signal becomes a center (Timing = 0± 5nsec).

<Note>

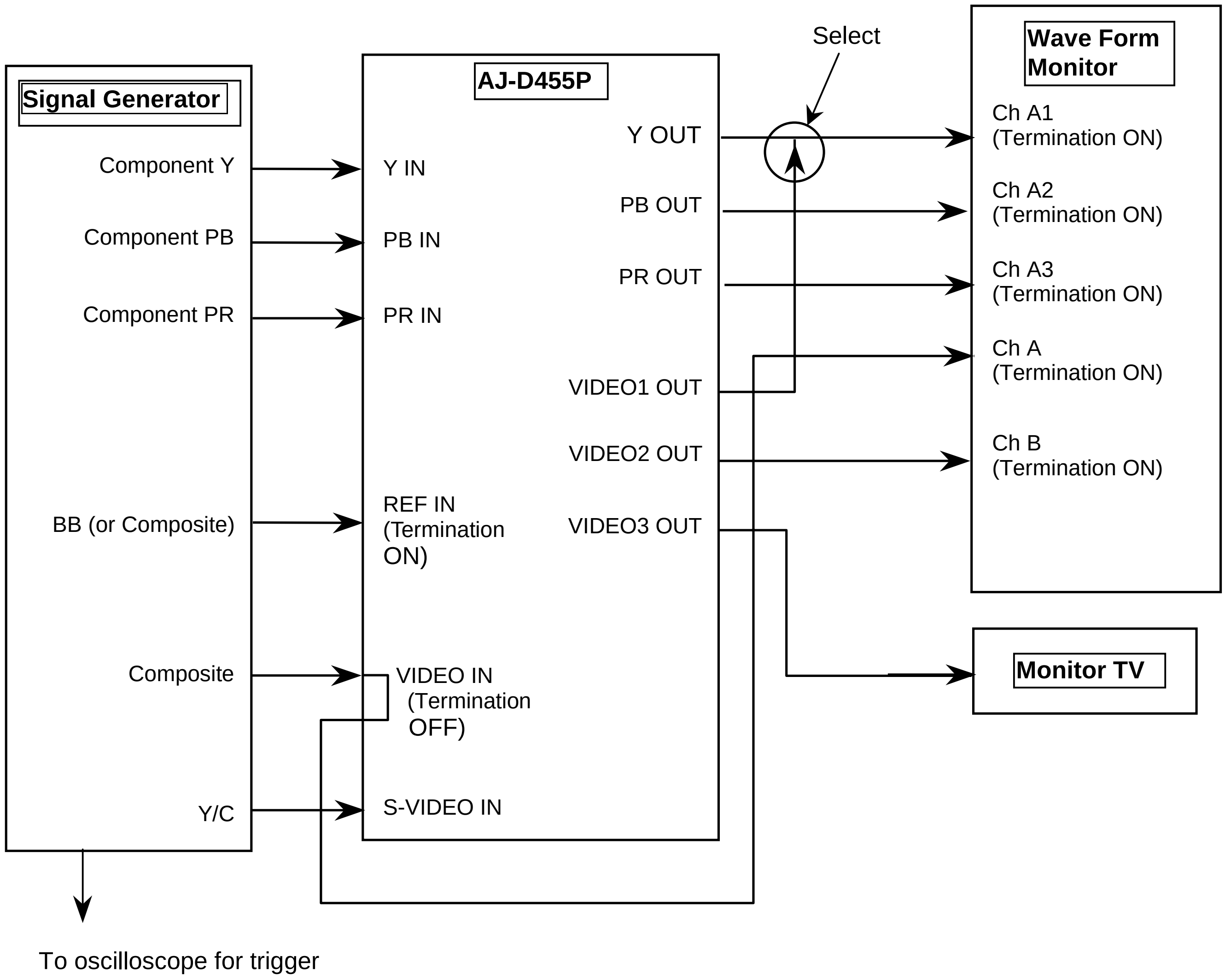
Incase of WFM does not have “Bowtie mode” (Y-Pb timing adjustment mode), if the oscilloscope has “ADD” and “INVERT” switch, it is possible to make the following waveform by those switch.



5. V IN (F5)


5-1. Connection and Menu Setting
5-2. PL DC Adjustment
5-3. Composite Color Demodulation Timing Adjustment
5-4. Composite SCH Detection Adjustment
5-5. Composite Color Demodulation Timing Adjustment
5-6. YC IN SCH Detection Adjustment
5-7. Component Y signal level Adjustment
5-8. Component Y Signal Offset level Adjustment
5-9. Component Pb Signal Offset level Adjustment
5-10. Component Pr signal Offset level Adjustment
5-11 Component Pb signal Level Adjustment
5-12. Component Pr Signal Level Adjustment
5-13. Component Pb Signal Timing Adjustment
5-14. Component Pr Signal Timing Adjustment
5-15. Composite Y signal Level Adjustment
5-16. Composite Y Signal Offset level Adjustment
5-17. Composite Pb Signal Offset level Adjustment
5-18. Composite Pr signal Offset level Adjustment
5-19. Composite Pb signal Level Adjustment
5-20. Composite Pr Signal Level Adjustment
5-21. Composite Pb/Pr Signal Timing Adjustment
5-22. Composite Video Out Phase Adjustment
5-23. Composite Vector Adjustment
5-24. Y Signal Level (YC IN) Adjustment
5-25. Y Signal Offset Level (YC IN) Adjustment
5-26. Pb Signal Offset level (YC IN) Adjustment
5-27. Pr Signal Offset level (YC IN) Adjustment
5-28. Pb signal Level (YC IN) Adjustment
5-29. Pr signal Level (YC IN) Adjustment
5-30. Pb/Pr Signal Timing (YC IN) Adjustment
5-31. YC IN Vector Adjustment

5-1. Connection and Menu Setting


Signal Generator
Component Y
Component PB
Component PR
BB (or Composite)
Composite
Y/C
AJ-D455P
Y IN
PB IN
PR IN
REF IN (Termination ON)
VIDEO IN (Termination OFF)
S-VIDEO IN
Y OUT
PB OUT
PR OUT
VIDEO1 OUT
VIDEO2 OUT
VIDEO3 OUT
Select
Wave Form Monitor
Ch A1 (Termination ON)
Ch A2 (Termination ON)
Ch A3 (Termination ON)
Ch A (Termination ON)
Ch B (Termination ON)
Monitor TV
To oscilloscope for trigger

<Caution>
Set the component output level of signal generator to β CAM level.

Set the SET-UP MENU as follows.

600: PB/PR IN LV β CAM
620: PB/PR OUT LV β CAM
613: SETUP (Select this item and Press the “STOP” button, then open the SETUP menu as follows.)
- 00: CMPST IN THRU
- 01: CMPST OUT THRU
- 02: CMPNT IN THRU
- 03: CMPNT OUT THRU

5-2. PL DC Adjustment

BOARD	V IN (F5)
TP	TP552 (PLL DC)
ADJ.	VC500 (VCO DC)
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	DC voltage : 0 ± 0.1V

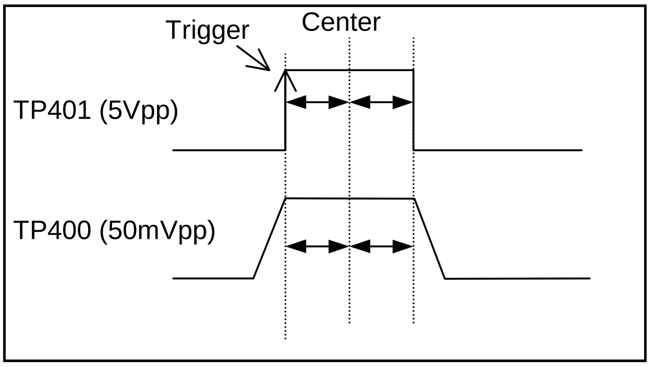
1. Connect the scope to TP552. And adjust VC500 so that the DC voltage is in the specification.

5-3. Composite Color Demodulation Timing Adjustment

BOARD	V IN (F5)
TP	TP400, TP401
ADJ.	VR401 (RSTH SITE), Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	Center

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Set the numerical value of the **E08 SITE CAXIS** to 127.
5. Connect the scope CH1 to TP401 and CH2 to TP400.
6. Adjust VR401 so that the timing of the center portion of these pulses becomes same timing.
7. Set the **E08 SITE CAXIS** to –27.
8. Close the menu.

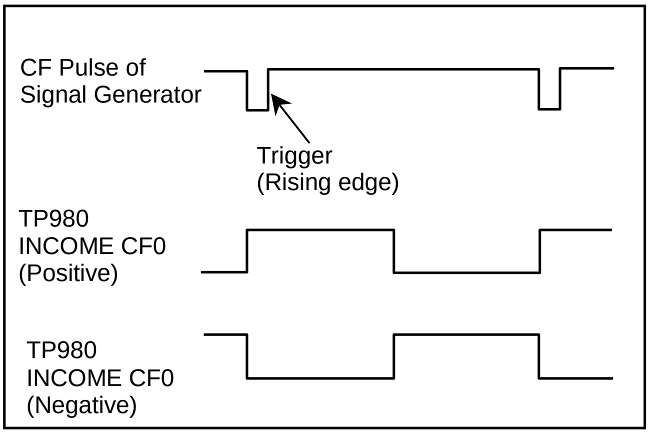
<Note>
After this adjustment, 5-*Composite Vector Adjustment should be performed.



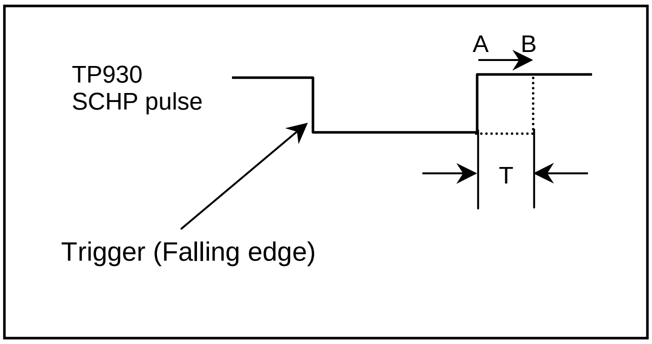
5-4. Composite SCH Detection Adjustment

BOARD	V IN (F5)
TP	TP980 (INCF), TP930 (SCHP)
ADJ.	VR402 (SCH SITE)
TAPE	-----
INPUT	CF Signal Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	T: 55 ± 5nsec

1. Connect the scope CH1 to TP980 and CH2 to CF Pulse of the signal generator. And set the trigger channel to CH2. (Triggered by rising edge.)
2. Set VR402 fully counterclockwise.
3. If income CF0 pulse of the TP980 is positive pulse, turn the VR402 clockwise until changing from positive to negative as shown bellow.
4. Turn the VR402 clockwise slowly until just changing from negative to positive as shown below.



5. Connect the scope CH1 to TP930.
6. Turn the VR402 clockwise slowly until the rising edge of the SCHP pulse (TP930) moves from “A” to “B” as shown below. The time difference “T” should be in the specification.

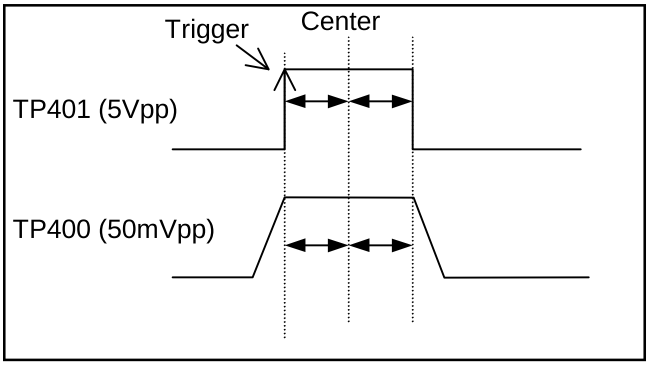


5-5. Composite Color Demodulation Timing Adjustment

BOARD	V IN (F5)
TP	TP400, TP401
ADJ.	VR403 (RSTH YC), Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	Center

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Set the numerical value of the **E08 YC CAXIS** to 127.
5. Connect the scope CH1 to TP401 and CH2 to TP400.
6. Adjust VR401 so that the timing of the center portion of these pulses becomes same timing.
7. Set the **E08 SITE CAXIS** to –27.
8. Close the menu.

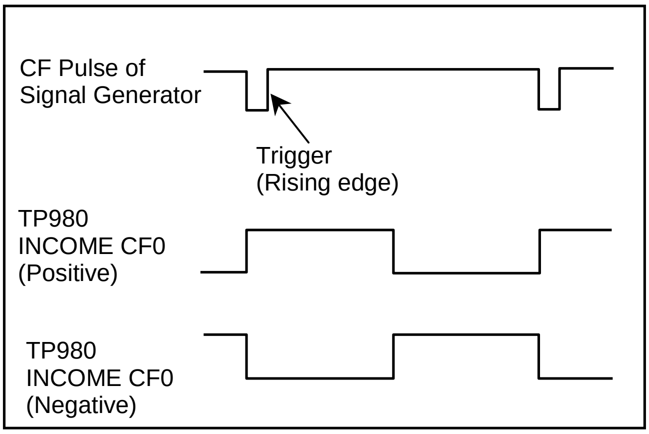
<Note>
After this adjustment, 5-*Composite Vector Adjustment should be performed.


Trigger
Center
TP401 (5Vpp)
TP400 (50mVpp)

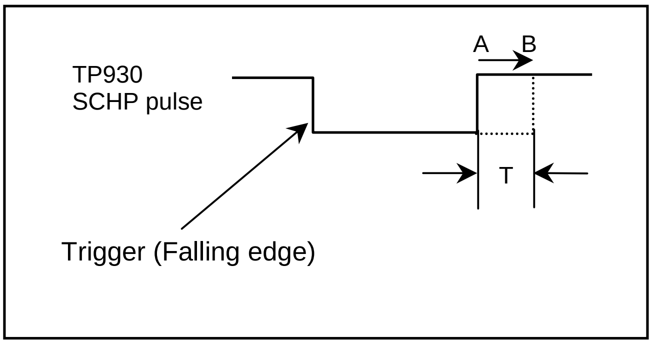
5-6. YC IN SCH Detection Adjustment

BOARD	V IN (F5)
TP	TP980 (INCF), TP930 (SCHP)
ADJ.	VR404 (SCH YC)
TAPE	-----
INPUT	CF Signal Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Oscilloscope
SPEC.	T: 55 ± 5nsec

1. Connect the scope CH1 to TP980 and CH2 to CF Pulse of the signal generator. And set the trigger channel to CH2. (Triggered by rising edge.)
2. Set VR404 fully counterclockwise.
3. If income CF0 pulse of the TP980 is positive pulse, turn the VR404 clockwise until changing from positive to negative as shown bellow.
4. Turn the VR404 clockwise slowly until just changing from negative to positive as shown below.


CF Pulse of
Signal Generator
Trigger
(Rising edge)
TP980
INCOME CF0
(Positive)
TP980
INCOME CF0
(Negative)

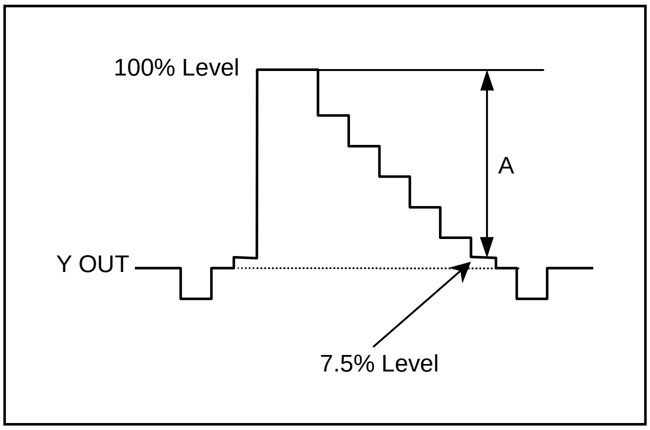
5. Connect the scope CH1 to TP930.
6. Turn the VR404 clockwise slowly until the rising edge of the SCHP pulse (TP930) moves from "A" to "B" as shown below. The time difference "T" should be in the specification.


A
B
TP930
SCHP pulse
T
Trigger (Falling edge)

5-7. Component Y signal level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar with 7.5% Set-up) βCAM Level
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal(100%←→7.5%) : 661 ± 3mV

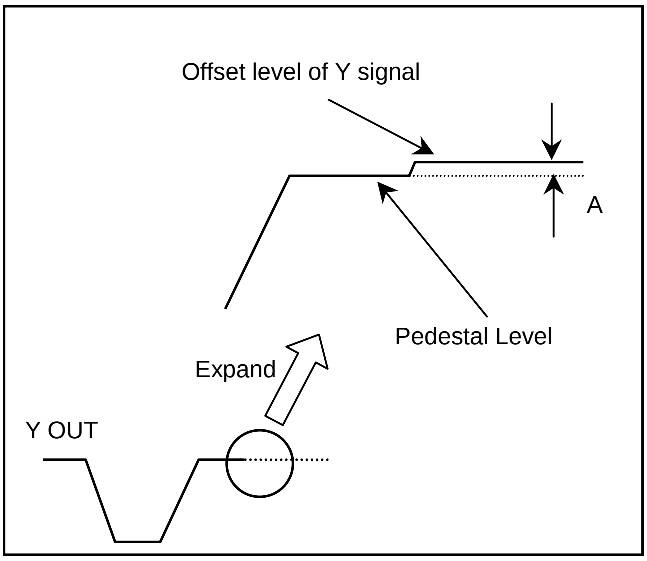
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E00 NENT Y GAIN** so that the level "A" is in the specification. (Level "A" is between 100% portion and 7.5% portion.)
5. Close the menu.



5-8. Component Y Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal: 0 ± 4mV

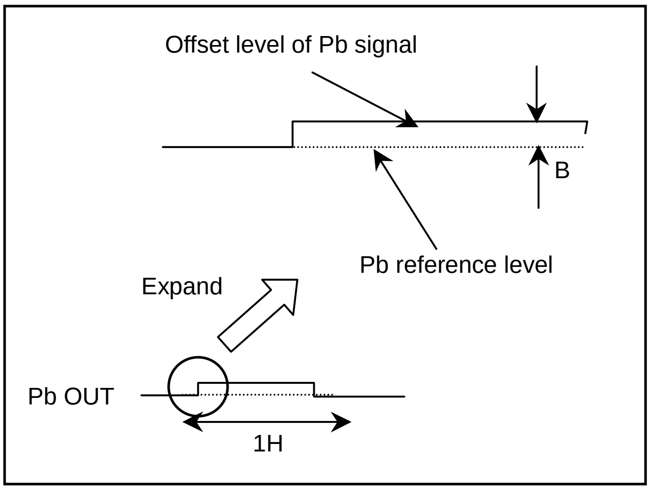
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E01 NENT Y OFS** so that the level "A" is in the specification. (Level "A" is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-9. Component Pb Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0 ± 4mV

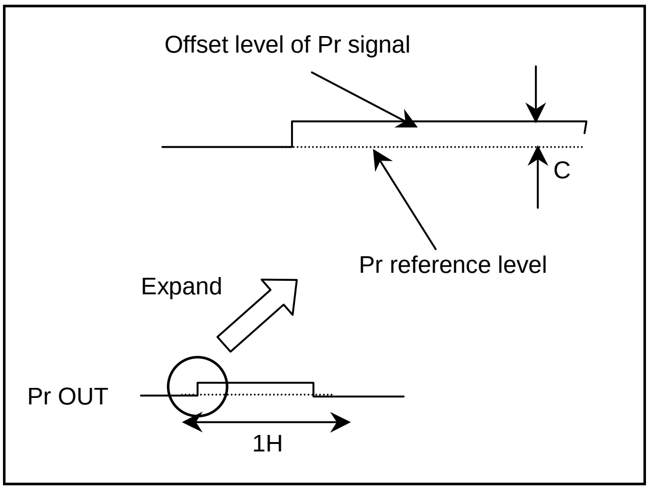
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E03 NENT PB OFS** so that the level “B” is in the specification. (Level “B” is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-10.Component Pr signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0 ± 4mV

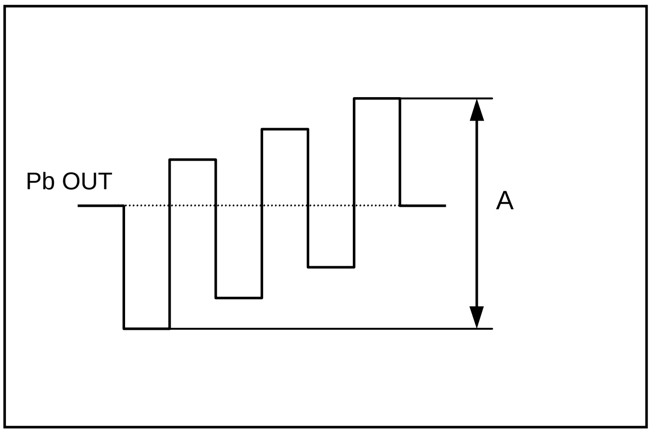
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E06 NENT PR OFS** so that the level “C” is in the specification. (Level “C” is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-11 Component Pb signal Level Adjustment

BOARD	V IN (F5)
TP	Component PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar with 7.5% Set-up) βCAM Level
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 933 ± 4mV

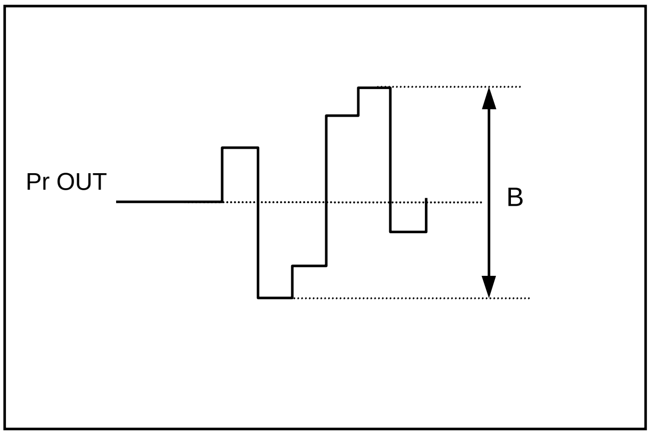
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E02 NENT PB GAIN** so that the level “A” is in the specification.
5. Close the menu.



5-12.Component Pr Signal Level Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar with 7.5% Set-up) βCAM Level
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 933 ± 4mV

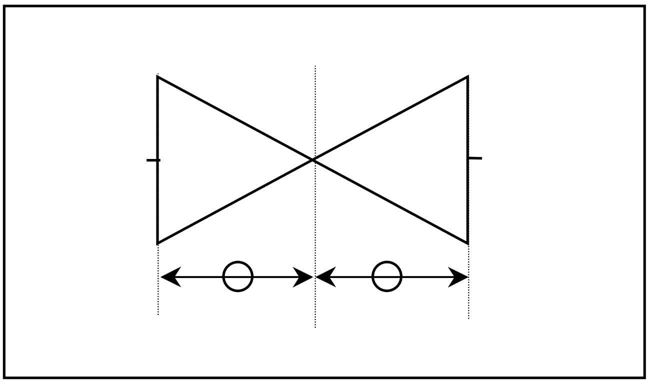
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E05 NENT PB GAIN** so that the level “B” is in the specification.
5. Close the menu.



5-13.Component Pb Signal Timing Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (Bowtie) βCAM Level
MODE	EE
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Relative Timing: 0 ± 5nsec

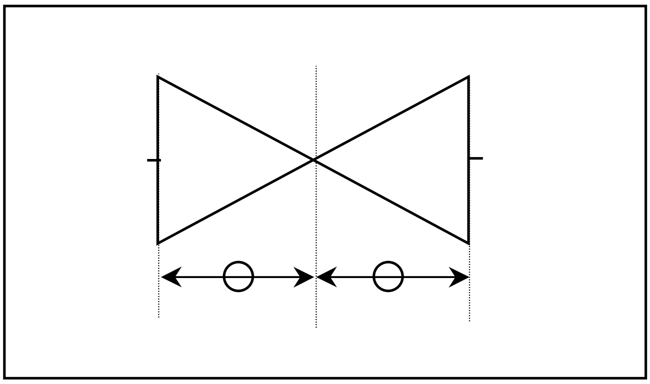
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E04 NENT PB TMG** so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).
5. Close the menu.



5-14.Component Pr Signal Timing Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (Bowtie) βCAM Level
MODE	EE
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Relative Timing: 0 ± 5nsec

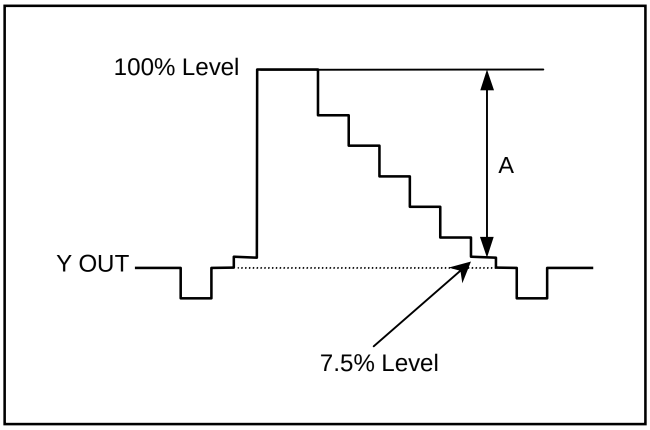
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the “SET” button to open the CMPNT ADJUST menu.
4. Adjust the **E07 NENT PR TMG** so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).
5. Close the menu.



5-15.Composite Y signal Level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal (A)(100%←→7.5%) : 661 ± 3mV

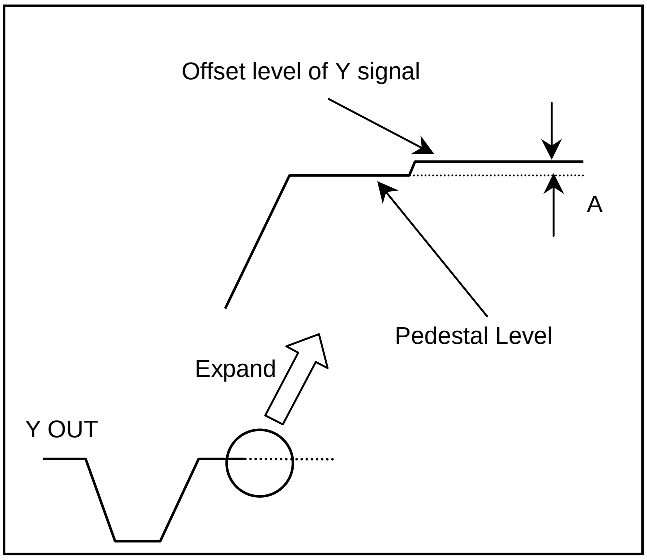
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E00 SITE Y GAIN** so that the level “A” is in the specification. (Level “A” is between 100% portion and 7.5% portion.)
5. Close the menu.



5-16.Composite Y Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal (A) : 0 ± 4mV

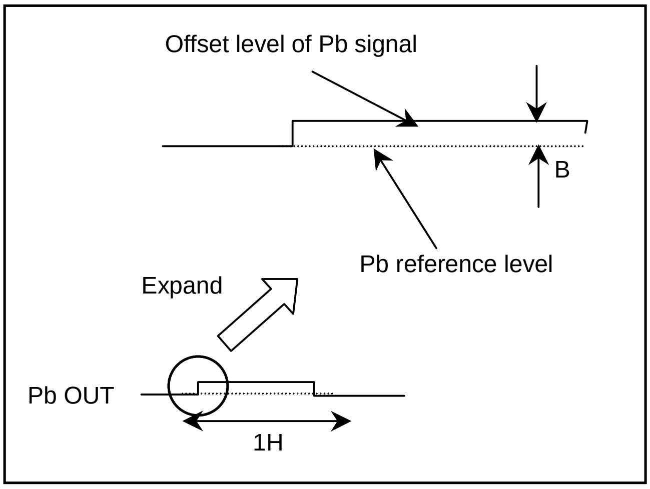
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E01 SITE Y OFS** so that the level “A” is in the specification. (Level “A” is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-17.Composite Pb Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0± 4mV

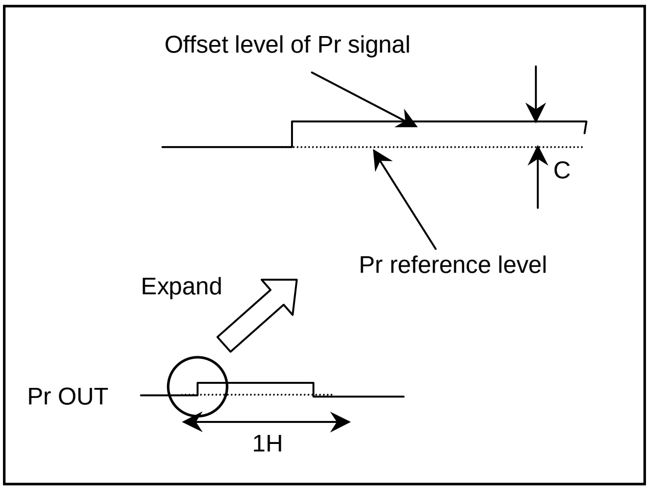
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E03 SITE PB OFS** so that the level “B” is in the specification. (Level “B” is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-18.Composite Pr signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0± 4mV

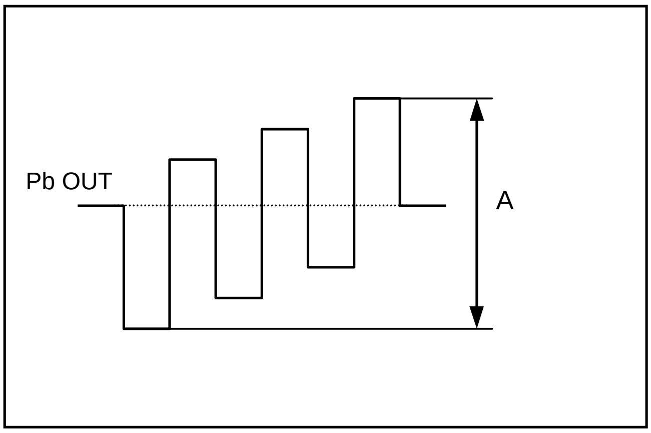
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E06 SITE PR OFS** so that the level “C” is in the specification. (Level “C” is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-19.Composite Pb signal Level Adjustment

BOARD	V IN (F5)
TP	Composite PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700± 4mV

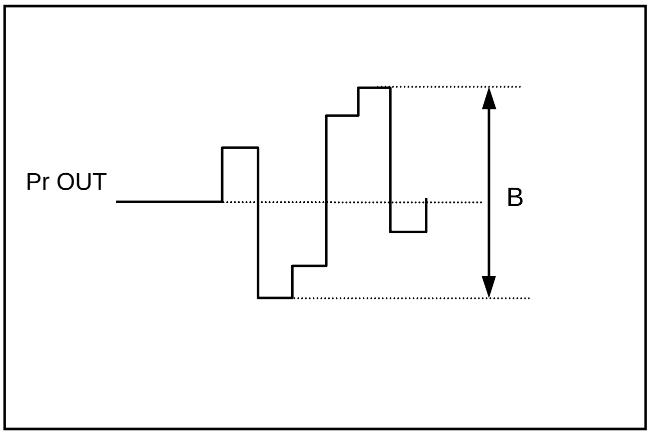
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E02 SITE PB GAIN** so that the level “A” is in the specification.
5. Close the menu.



5-20.Composite Pr Signal Level Adjustment

BOARD	V IN (F5)
TP	Composite PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700± 4mV

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E05 SITE PB GAIN** so that the level “B” is in the specification.
5. Close the menu.



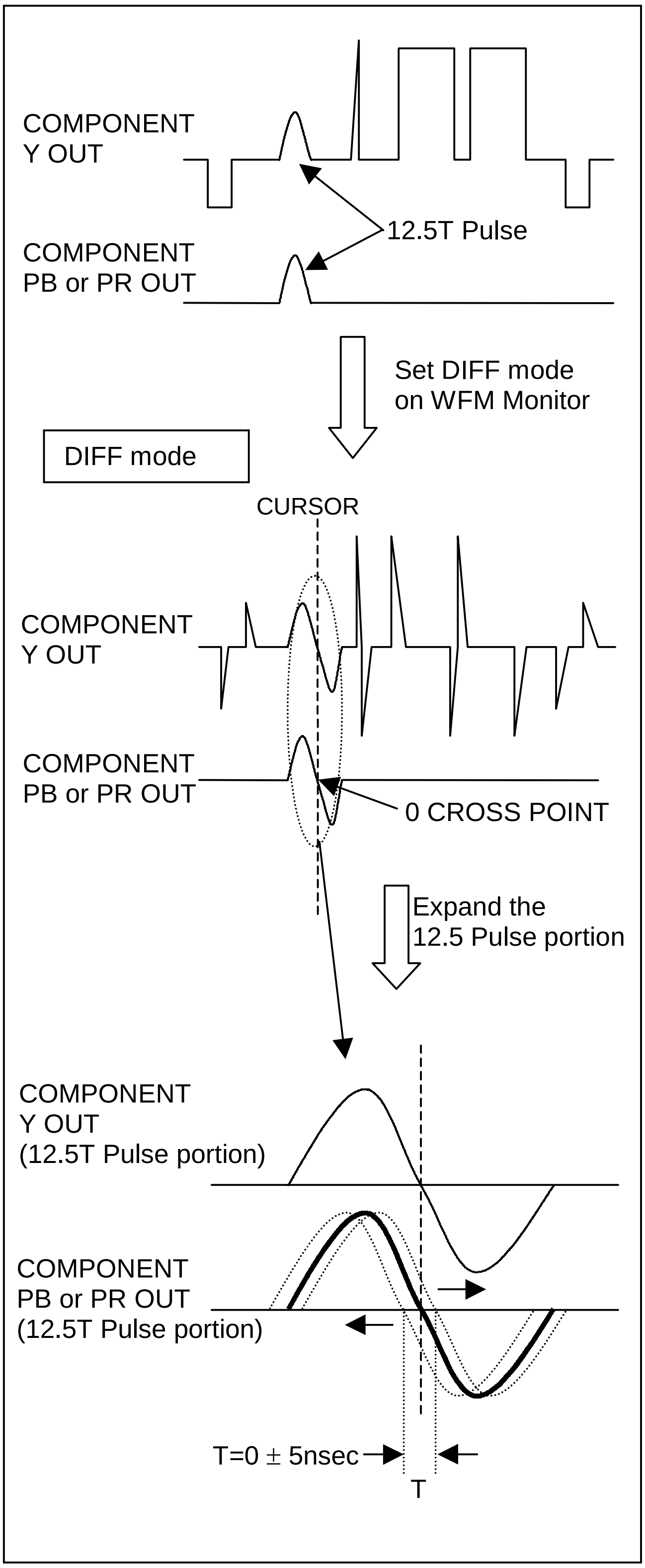
5-21.Composite Pb/Pr Signal Timing Adjustment

BOARD	V IN (F5)
TP	Y, Pr, Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM (DIFF mode)
SPEC.	T = 0± 5nsec

1. Confirm that the 12.5T modulation signal portion of Component Y OUT is displayed correctly on the WFM as shown in figure.
2. Confirm that the 12.5T modulation signal portion of Component PB and PR OUT is displayed correctly on the WFM as shown in figure.
3. Set WFM monitor to DIFF mode. In the DIFF mode, waveform of Y and PB or PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
5. Open the SERVICE MENU (Refer to SEC1 Service Information.)
6. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
7. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
8. Adjust the **E04 SITE PB TMG or E07 SITE PR TMG** so that the signal timing between Y and PB or PR signal is in specification.
9. Close the Menu.

NOTE:

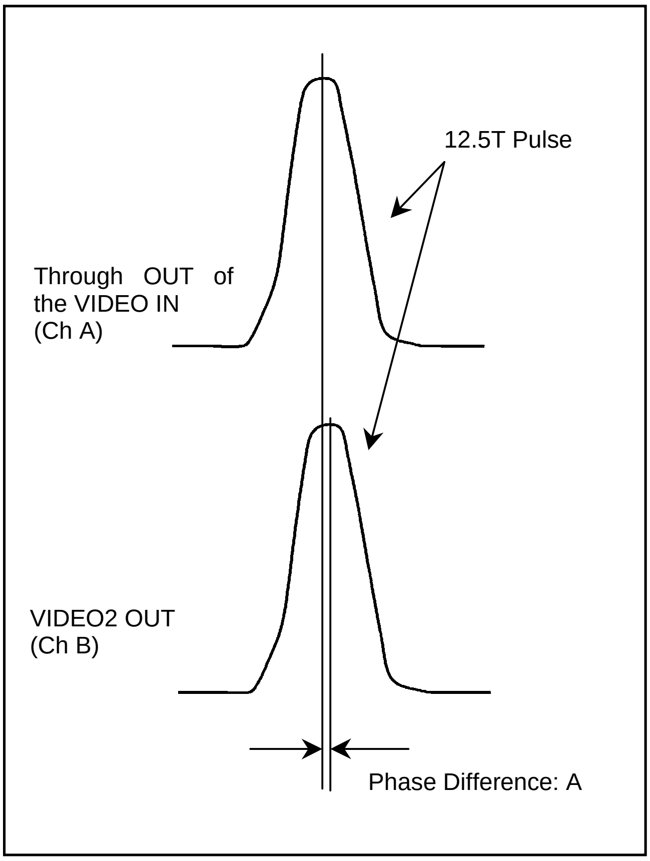
Please use WFM Monitor with DIFF mode.


COMPONENT Y OUT
COMPONENT PB or PR OUT
12.5T Pulse
Set DIFF mode on WFM Monitor
DIFF mode
CURSOR
COMPONENT Y OUT
COMPONENT PB or PR OUT
0 CROSS POINT
Expand the 12.5 Pulse portion
COMPONENT Y OUT (12.5T Pulse portion)
COMPONENT PB or PR OUT (12.5T Pulse portion)
T=0 ± 5nsec
T

5-22.Composite Video Out Phase Adjustment

BOARD	V IN (F5)
TP	VIDEO IN THRU VIDEO2 OUT
ADJ.	VR550 (SYNC0)
TAPE	-----
INPUT	Analog Composite Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM
SPEC.	Phase Difference A : 0 ± 10nsec

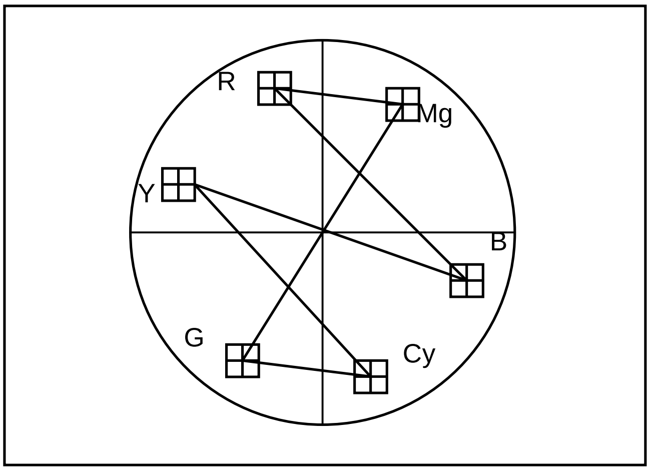
1. Adjust VR550 (SYNC0) so that the phase difference of 12.5T pulse between through out of the VIDEO IN and the VIDEO OUT 2 is in the specification.



5-23.Composite Vector Adjustment

BOARD	V IN (F5)
TP	VIDEO 1 OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Analog WFM
SPEC.	All vector dots are in the inner box

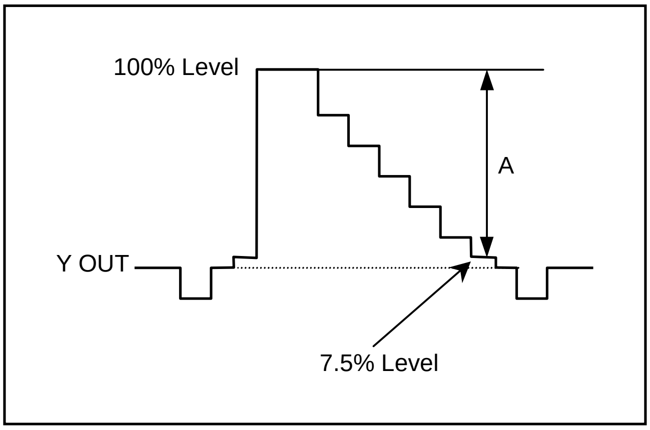
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust **E08 SITE CAXIS** so that the all vector dots are in the inner box.
5. Close the menu.



5-24.Y Signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-Up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal Level: 661 ± 3mV

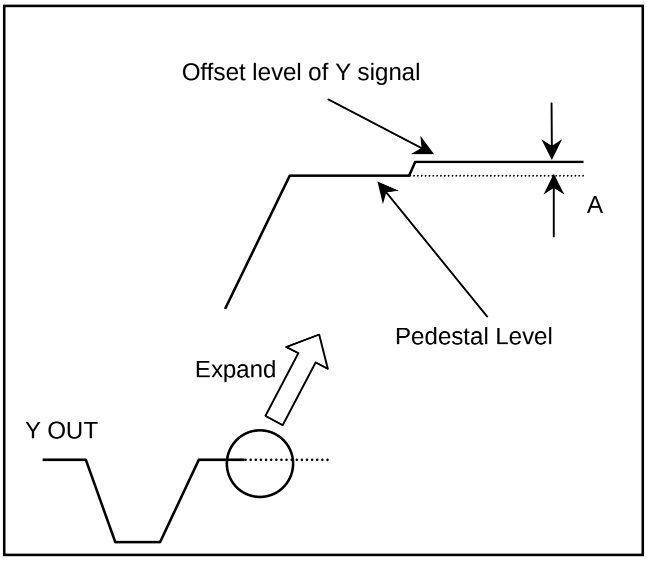
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E00 YC Y GAIN** so that the level “A” is in the specification. (Level “A” is between 100% portion and 7.5% portion.)
5. Close the menu.



5-25.Y Signal Offset Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal (A) : 0 ± 4mV

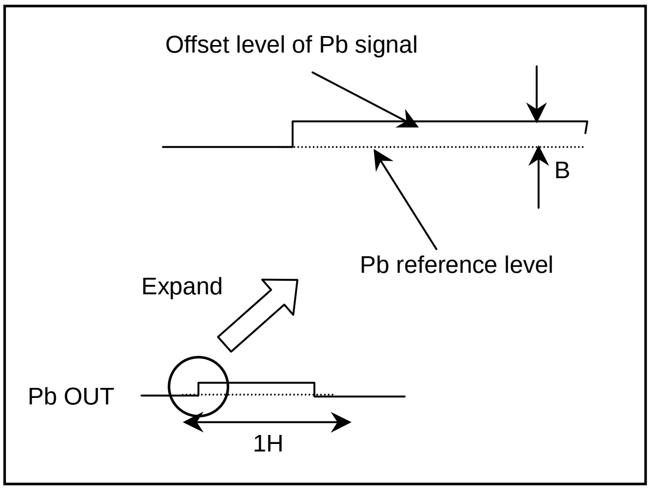
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E01 YC Y OFS** so that the level “A” is in the specification. (Level “A” is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-26.Pb Signal Offset level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0± 4mV

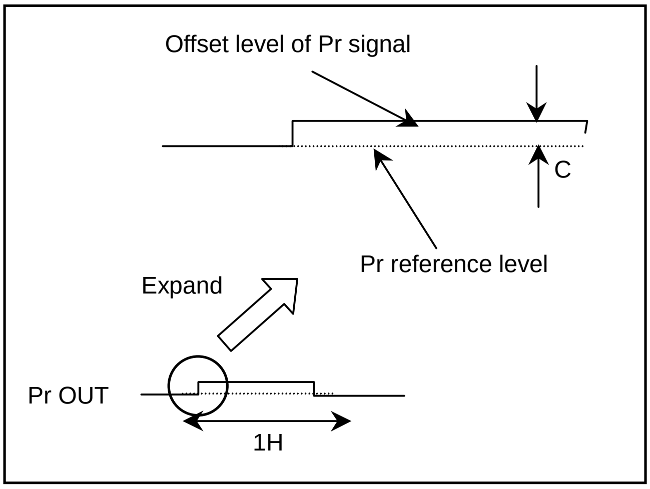
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E03 YC PB OFS** so that the level “B” is in the specification. (Level “B” is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-27.Pr Signal Offset level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0± 4mV

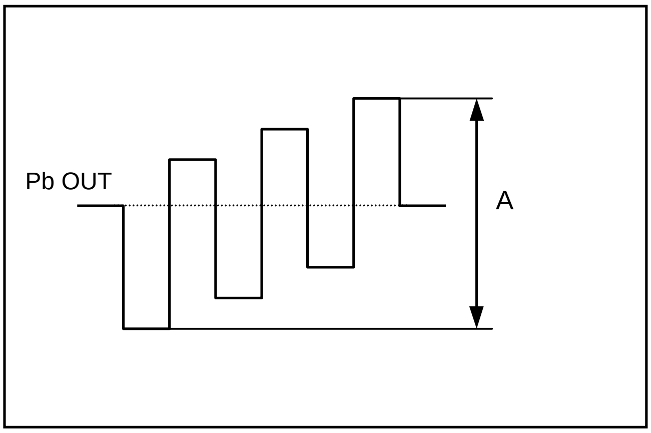
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E06 YC PR OFS** so that the level “C” is in the specification. (Level “C” is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-28.Pb signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700 ± 4mV

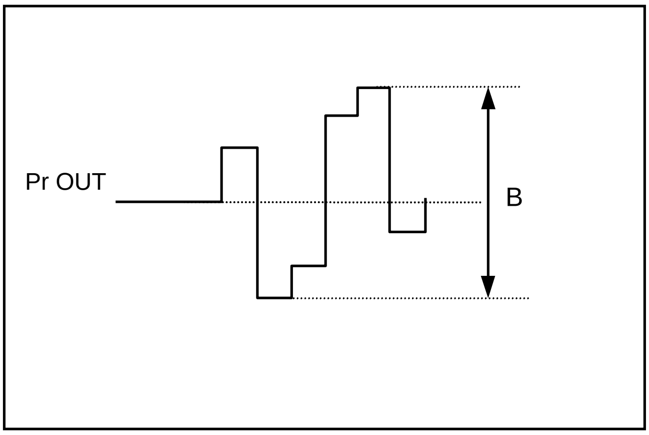
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E02 YC PB GAIN** so that the level “A” is in the specification.
5. Close the menu.



5-29.Pr signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700 ± 4mV

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust the **E05 YC PR GAIN** so that the level “B” is in the specification.
5. Close the menu.

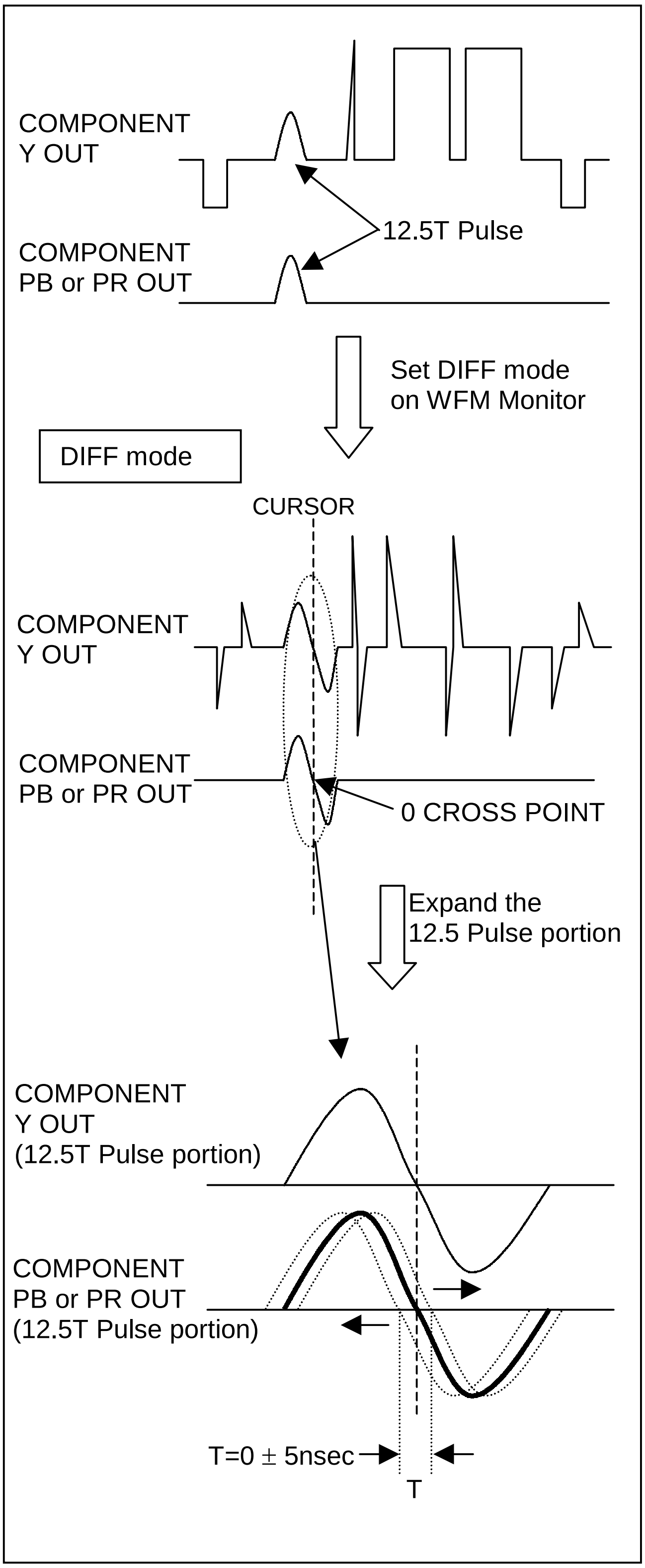


5-30.Pb/Pr Signal Timing (YC IN) Adjustment

BOARD	V IN (F5)
TP	Y, Pr, Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM (DIFF mode)
SPEC.	T = 0± 5nsec

1. Confirm that the 12.5T modulation signal portion of Component Y OUT is displayed correctly on the WFM as shown in figure.
2. Confirm that the 12.5T modulation signal portion of Component PB or PR OUT is displayed correctly on the WFM as shown in figure.
3. Set WFM monitor to DIFF mode. In the DIFF mode, waveform of Y and PB or PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
5. Open the SERVICE MENU (Refer to SEC1 Service Information.)
6. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
7. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
8. Adjust the **E04 YC PB TMG or E07 YC PR TMG** so that the signal timing between Y and PB or PR signal is in the specification.
9. Close the Menu.

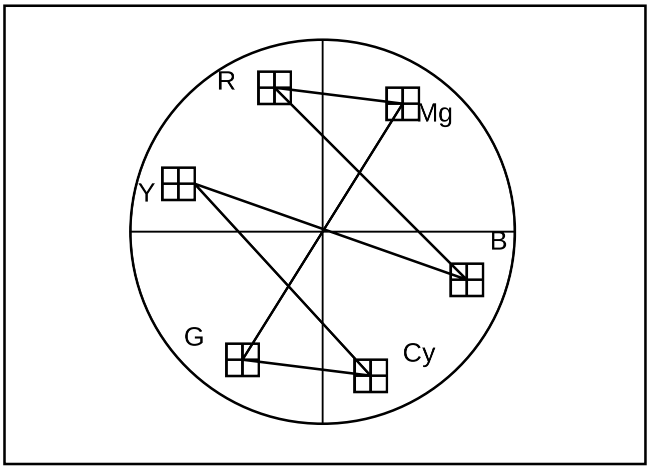
NOTE:
Please use WFM Monitor with DIFF mode.


COMPONENT Y OUT
COMPONENT PB or PR OUT
12.5T Pulse
Set DIFF mode on WFM Monitor
DIFF mode
CURSOR
COMPONENT Y OUT
COMPONENT PB or PR OUT
0 CROSS POINT
Expand the 12.5 Pulse portion
COMPONENT Y OUT (12.5T Pulse portion)
COMPONENT PB or PR OUT (12.5T Pulse portion)
T=0 ± 5nsec
T

5-31.YC IN Vector Adjustment

BOARD	V IN (F5)
TP	VIDEO 1 OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC	All vector dots are in the inner box

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the “SET” button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the “SET” button to open the CMPST ADJUST menu.
4. Adjust **E08 YC CAXIS** so that the all vector dots are in the inner box.
5. Close the menu.



6. AUDIO (F1) and RF/CUE

6-1. Setting

1. Set the audio impedance switches on the Audio (F1) board as shown below.

SW100 : HIGH SW101 : HIGH

2. Set the Front Switch as shown bellow.

REC VR(CH1,CH2)	Center
Audio IN	ANALOG
REMOTE/LOCAL	LOCAL
HEAD PHONES	ST
HP VR	Center

1. Set the Audio Analyzer as shown below.

Audio Analyzer	
GENERATOR OUTPUT	50Ω (A&B, BAL, FLOAT)
ANALYZE CHA INPUT	100KΩ
ANALYZE CHB INPUT	100KΩ
UNIT SETTING	dBu

<Service Menu Setting>

1. Open the Service Menu. (Refer to SEC1 Service Information.)
2. Select the **G00: AUDIO ADJUST**.
3. Set the items as shown below

MENU	Setting
G01:REF LEVEL1	Fs-20
G02:REF LEVEL2	0dB
G03:REF LV INI	0dB
G09:LINE OUT CUE	OFF

<User Menu Setting>

1. Open the User Menu and set the items as shown below.

MENU	Setting
700 CH1 IN LEV	0dB
701 CH2 IN LEV	0dB
703 CH1 OUT LEV	0dB
704 CH2 OUT LEV	0dB
713 MONI CH SEL	AUTO1
714 REC CH1	CH1
715 REC CH2	CH2
716 REC CUE	CH1
718 DV OUTPUT	ST1
719 PB FADE	AUTO
720 EMBEDED AUD	ON
721 LINE CH SEL	PCM
722 INT SIG	OFF
725 CUE SLOW	STEP
731 DV REF LV	DV

6-2. CH1, CH2 Output Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1, CH2)
ADJ.	VR300 (CH1 OUT LV) VR301 (CH2 OUT LV)
TAPE	-----
INPUT	INT SIG
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 0.2dB

1. Set the SET-UP MENU as shown bellow.
   722 INT SIG : ON
2. Adjust VR300 so that the CH1 level is in the specification.
3. Adjust VR301 so that the CH2 level is in the specification.
4. Confirm that the level meter on the front panel is displayed at –20dB.

6-3. CH1, CH2 Input Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1, CH2)
ADJ.	VR200 (CH1 IN LV) VR201 (CH2 IN LV)
TAPE	-----
INPUT	LINE IN CH1,2 (1KHz 0dBu, Sinewave)
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 0.2dB

1. Adjust VR200 so that the CH1 level is in the specification.
2. Adjust VR201 so that the CH2 level is in the specification.

6-4. CUE BIAS CURRENT Adjustment

BOARD	RF/CUE
TP	TP4005 [RF/CUE Board] TP4006 (GND) [RF/CUE Board]
ADJ.	VR4001(BIAS), FL4001(Core)
TAPE	Blank Tape
INPUT	-----
MODE	REC
M. EQ	Oscilloscope, VTVM
SPEC.	7mVrms ± 0.5 mVrms

1. Set the VR4001 (BIAS) to the center position.
2. Connect the Vacuum Tube Volt Meter between TP4005 (HOT) and TP4006 (GND).
   Adjust FL4001 and VR4001 so that the voltage is in the specification.

6-5. CUE PB Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1)
ADJ.	Service Menu VR800 (PB LEVEL)
TAPE	VFM3580KM/KL
INPUT	-----
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 1.0dB

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **G00: AUDIO ADJUST** and press the “SET” button to open the AUDIO ADJUST MENU.
3. Set the **G09 LINE OUT CUE** to ON.

<Caution>
During this adjustment, do not close the Service Menu. The setting of G09 LINE OUT CUE will be reset to OFF automatically.

4. Playback the CUE level master tape (25M), and adjust VR800 (PB LEVEL) so that the LINE OUT CH1 level is in the specification.
5. Close the menu.

<Caution>
1. Clean the A/C head, before this adjustment is executed.
2. Confirm the tape path condition around A/C head.

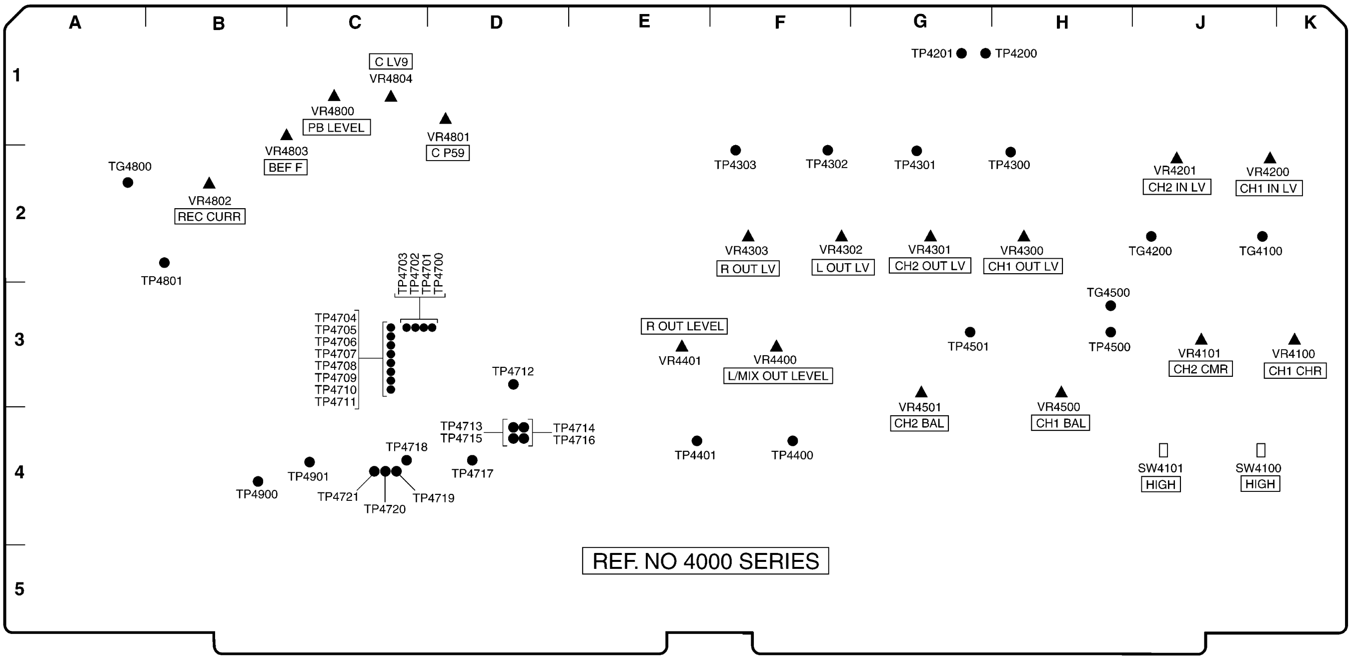
6-6. CUE REC/PB Level Adjustment

BOARD	AUDIO (F1)
TP	TP4005 [RF/CUE Board] TP4006 (GND) [RF/CUE Board] AUDIO OUT (CH1)
ADJ.	SERVICE MENU VR802 (REC CURR)
TAPE	Blank Tape
INPUT	AUDIO IN CH1,2 (1KHz 0dBu Sinewave)
MODE	SELF-REC / PLAY
M. EQ	Oscilloscope, Monitor TV Audio Analyzer, VTVM
SPEC.	0dBu ± 1.0dB

1. Open the SET UP MENU by pressing the “MENU” button.
2. Select the “**716 REC CUE**” item and set it to the CH1. After that press the “SET” button.
3. Supply a 1kHz, 0dBu sinewave signal into the AUDIO IN (Both CH1 and CH2) and record the input signal for few minutes.
4. Playback the just recorded portions and confirms that the AUDIO OUT (CH1) is in the specification.
5. If it is not, slightly adjust VR802 and then repeat step 3 to 5 until it is in the specification.

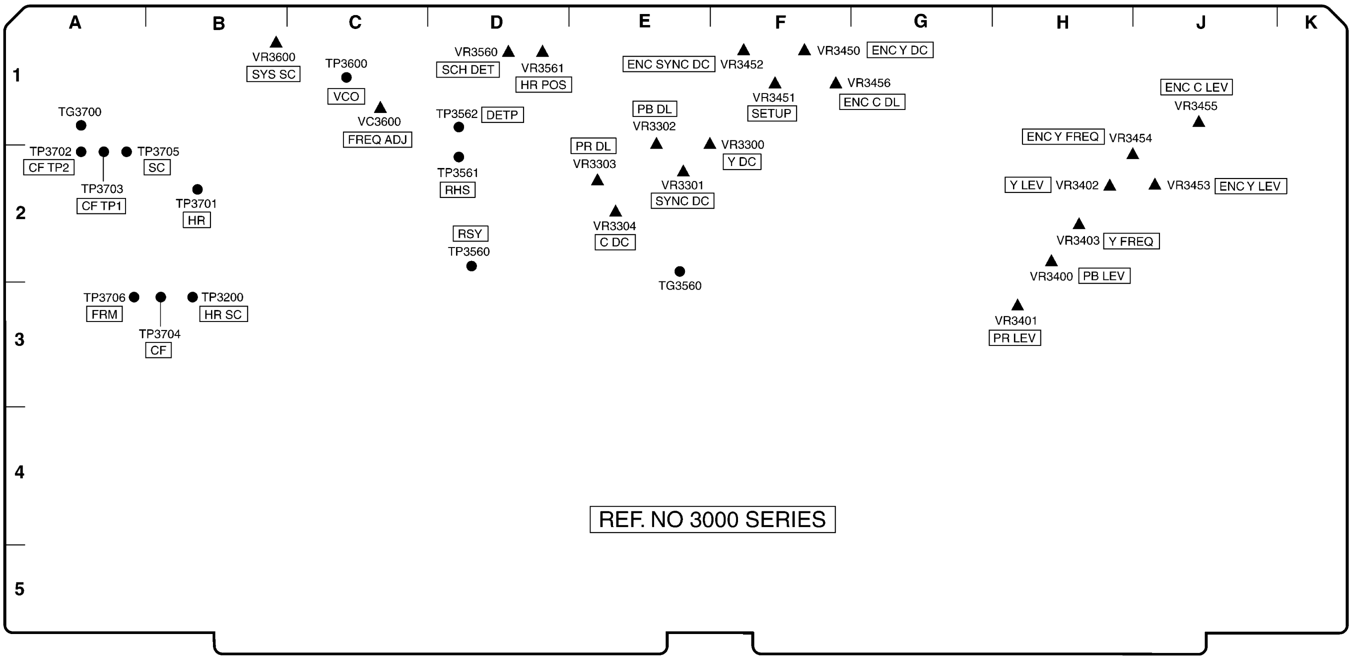
7. TP, VR, SW Location

F1 AUDIO P.C.BOARD (VEP84374A)


A
B
C
D
E
F
G
H
J
K
1
2
3
4
5
C LV9
VR4804
VR4800
PB LEVEL
VR4801
C P59
VR4803
BEF F
TG4800
VR4802
REC CURR
TP4801
TP4703
TP4702
TP4701
TP4700
TP4704
TP4705
TP4706
TP4707
TP4708
TP4709
TP4710
TP4711
TP4712
TP4713
TP4715
TP4714
TP4716
TP4718
TP4717
TP4901
TP4900
TP4721
TP4720
TP4719
TP4201
TP4200
TP4303
TP4302
TP4301
TP4300
VR4201
CH2 IN LV
VR4200
CH1 IN LV
VR4303
R OUT LV
VR4302
L OUT LV
VR4301
CH2 OUT LV
VR4300
CH1 OUT LV
TG4200
TG4100
TG4500
R OUT LEVEL
VR4401
VR4400
L/MIX OUT LEVEL
TP4501
TP4500
VR4101
CH2 CMR
VR4100
CH1 CHR
VR4501
CH2 BAL
VR4500
CH1 BAL
TP4401
TP4400
SW4101
HIGH
SW4100
HIGH
REF. NO 4000 SERIES

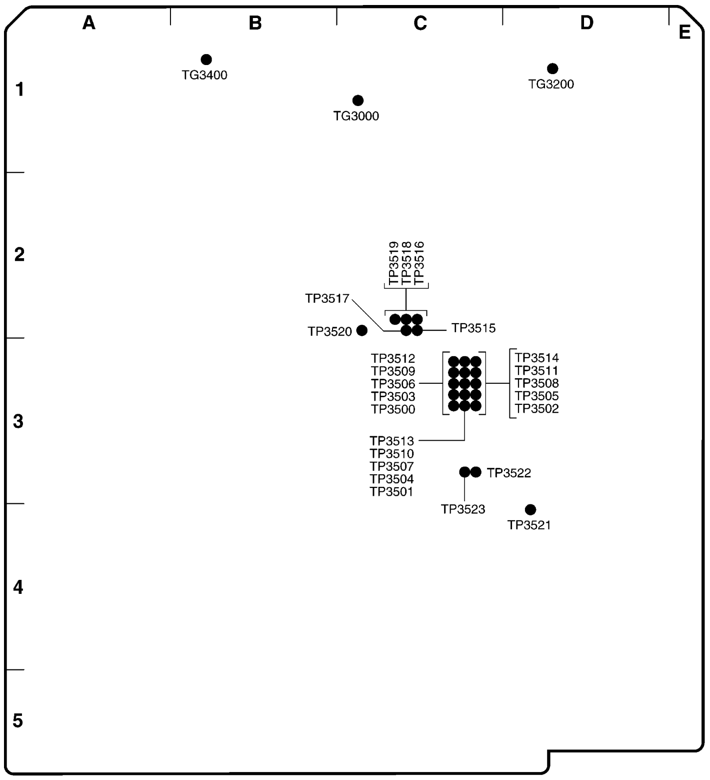
COMPONENT SIDE

F2 V OUT P.C.BOARD (VEP83557A)


A
B
C
D
E
F
G
H
J
K
1
2
3
4
5
VR3600
SYS SC
TP3600
VCO
VC3600
FREQ ADJ
VR3560
SCH DET
VR3561
HR POS
TP3562
DETP
TP3561
RHS
RSY
TP3560
ENC SYNC DC
VR3452
VR3450
ENC Y DC
VR3451
SETUP
VR3456
ENC C DL
PB DL
VR3302
PR DL
VR3303
VR3300
Y DC
VR3301
SYNC DC
VR3304
C DC
TG3560
TG3700
TP3702
CF TP2
TP3705
SC
TP3703
CF TP1
TP3701
HR
TP3706
FRM
TP3704
CF
TP3200
HR SC
ENC C LEV
VR3455
ENC Y FREQ
VR3454
Y LEV
VR3402
VR3453
ENC Y LEV
VR3403
Y FREQ
VR3400
PB LEV
VR3401
PR LEV
REF. NO 3000 SERIES

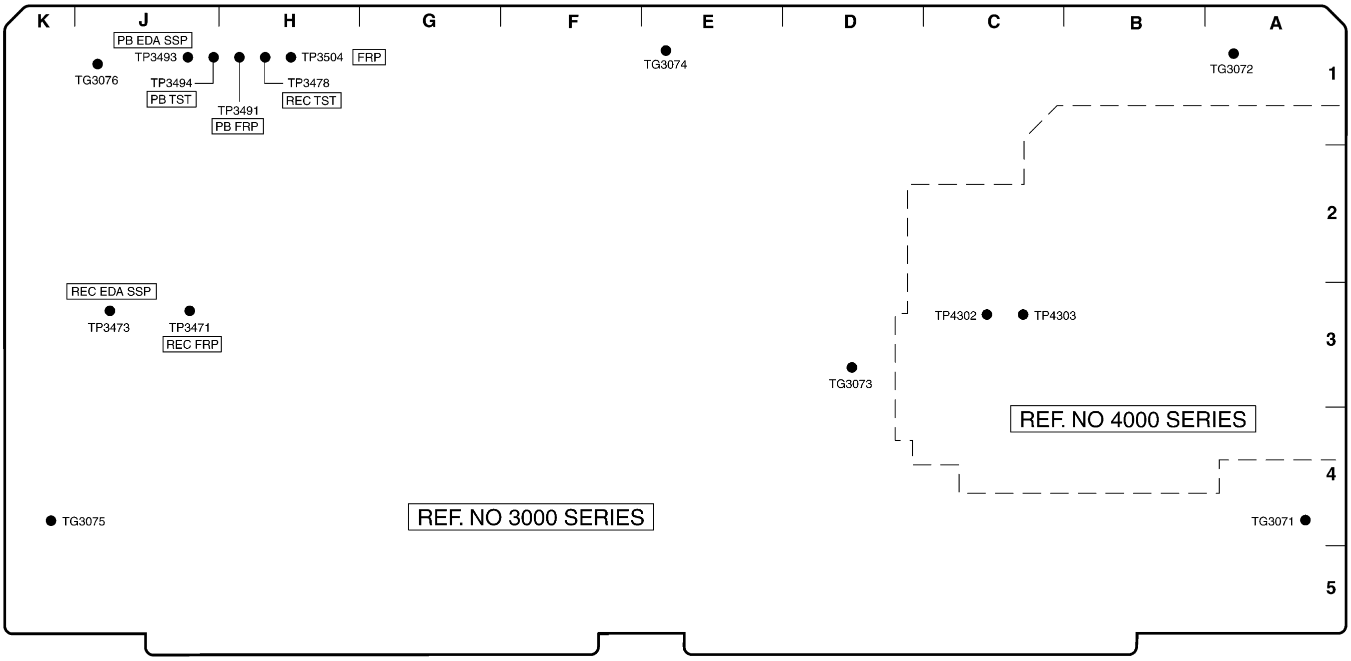
COMPONENT SIDE

F3A SDI P.C.BOARD (VEP83558A) (AJ-YA455P)


A
B
C
D
E
1
2
3
4
5
TG3400
TG3000
TG3200
TP3519
TP3518
TP3516
TP3517
TP3520
TP3515
TP3512
TP3509
TP3506
TP3503
TP3500
TP3514
TP3511
TP3508
TP3505
TP3502
TP3513
TP3510
TP3507
TP3504
TP3501
TP3522
TP3523
TP3521

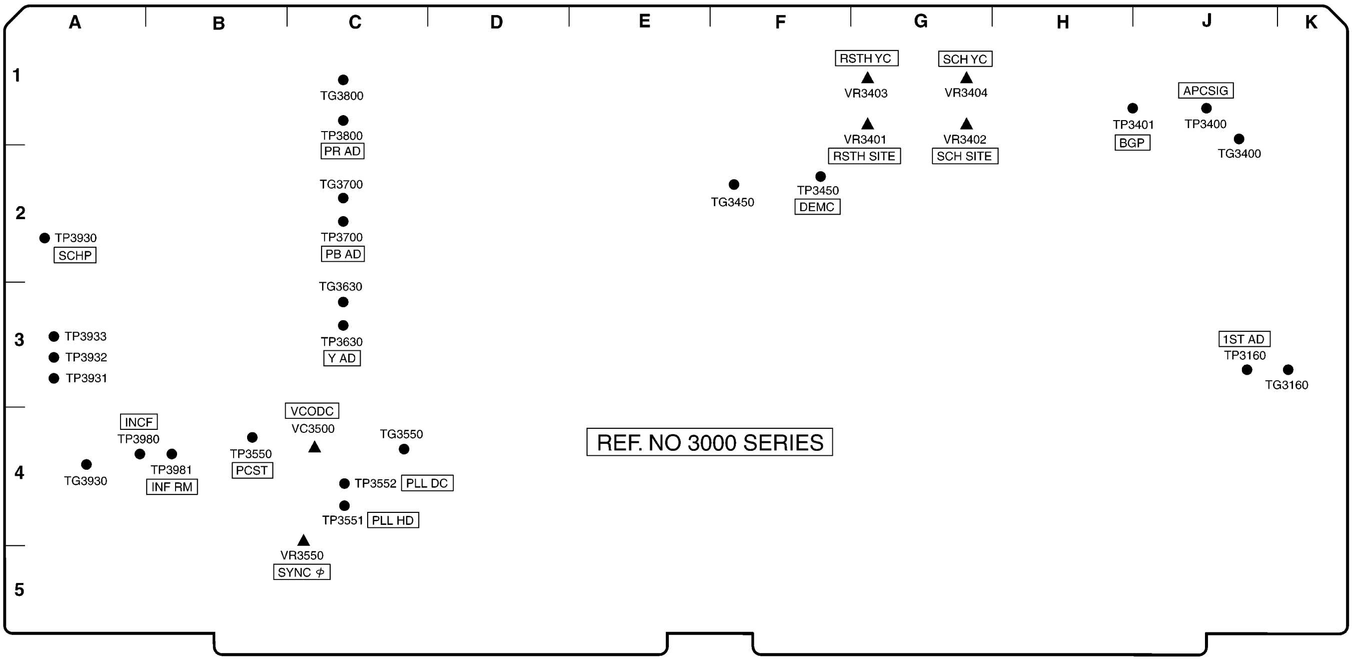
COMPONENT SIDE

F4 D PROC P.C.BOARD (VEP83554A)


K
J
H
G
F
E
D
C
B
A
1
2
3
4
5
PB EDA SSP
TP3493
TP3504
FRP
TG3076
TP3494
PB TST
TP3491
PB FRP
TP3478
REC TST
TG3074
TG3072
REC EDA SSP
TP3473
TP3471
REC FRP
TP4302
TP4303
TG3073
REF. NO 4000 SERIES
TG3075
REF. NO 3000 SERIES
TG3071

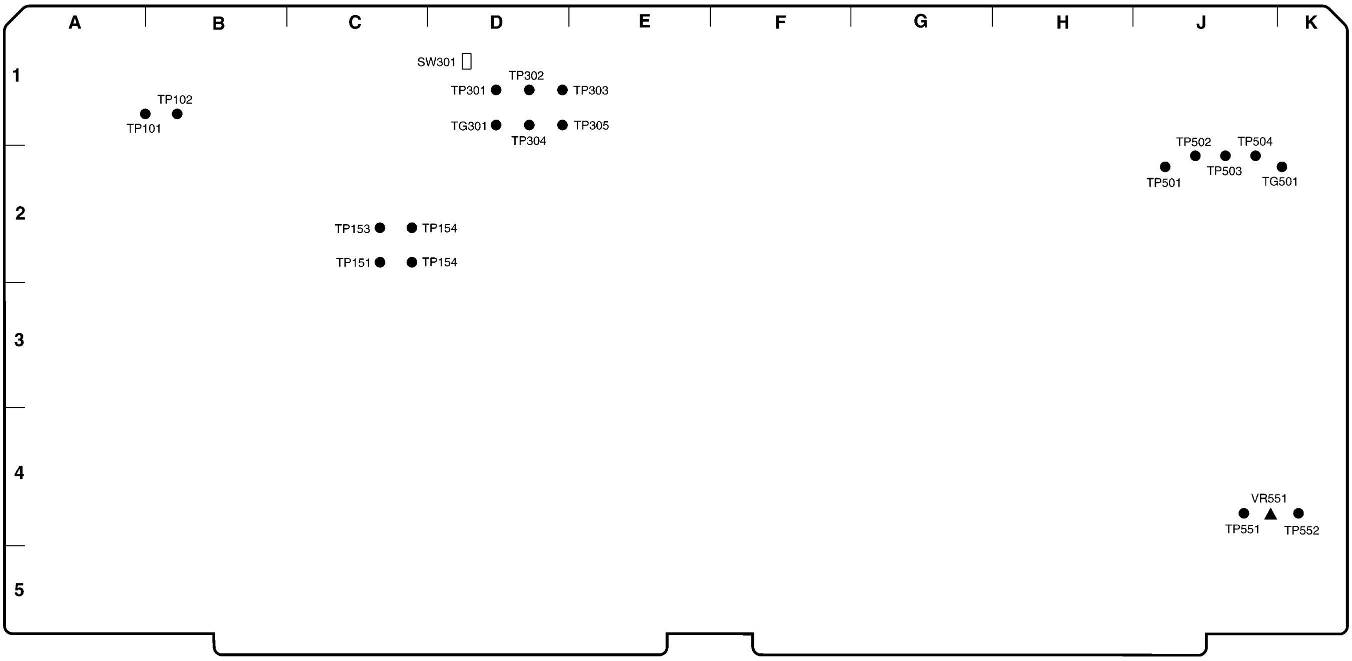
FOIL SIDE

F5 V IN P.C.BOARD (VEP83553A)


A
B
C
D
E
F
G
H
J
K
1
2
3
4
5
TG3800
TP3800
PR AD
TG3700
TP3700
PB AD
TG3630
TP3630
Y AD
TP3930
SCHP
TP3933
TP3932
TP3931
INCF
TP3980
TP3981
INF RM
TG3930
TP3550
PCST
VCODC
VC3500
TG3550
TP3552
PLL DC
TP3551
PLL HD
VR3550
SYNC φ
REF. NO 3000 SERIES
RSTH YC
VR3403
VR3401
RSTH SITE
SCH YC
VR3404
VR3402
SCH SITE
TG3450
TP3450
DEMC
TP3401
BGP
APCSIG
TP3400
TG3400
1ST AD
TP3160
TG3160

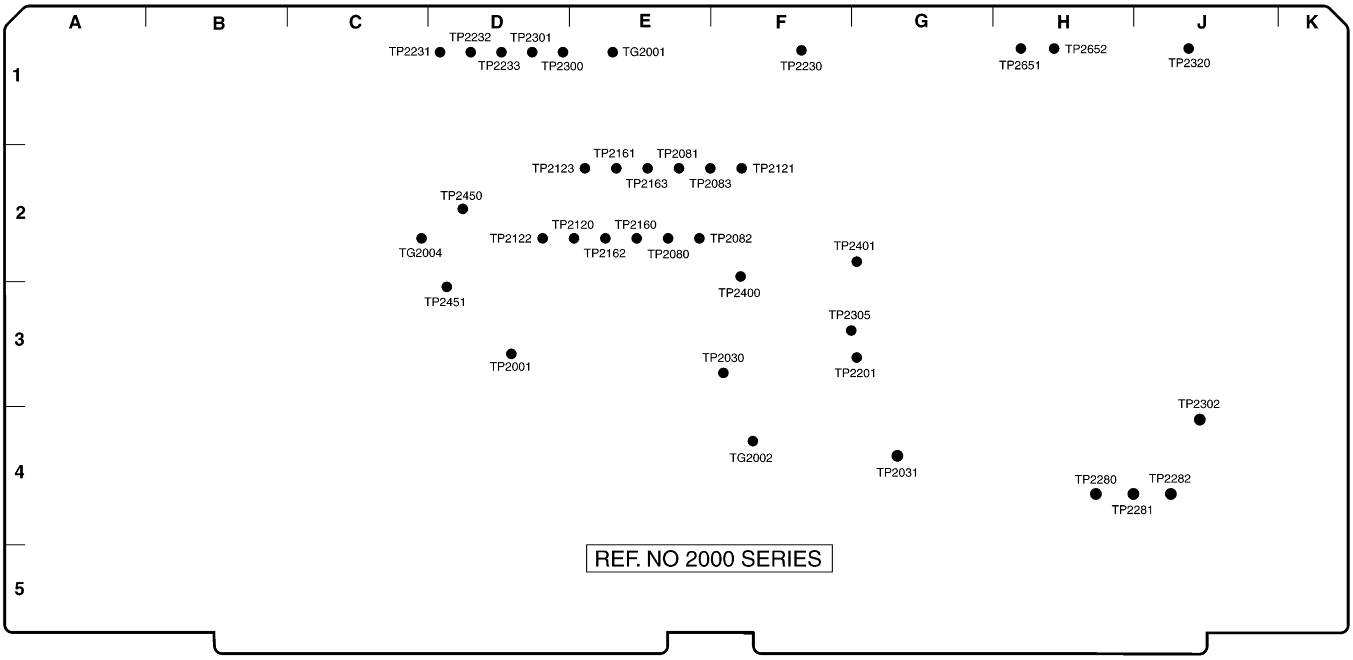
COMPONENT SIDE

F6 SYSCON P.C.BOARD (VEP86314A)


A
B
C
D
E
F
G
H
J
K
1
2
3
4
5
TP102
TP101
SW301
TP302
TP301
TP303
TG301
TP304
TP305
TP153
TP154
TP151
TP154
TP502
TP504
TP503
TP501
TG501
VR551
TP551
TP552

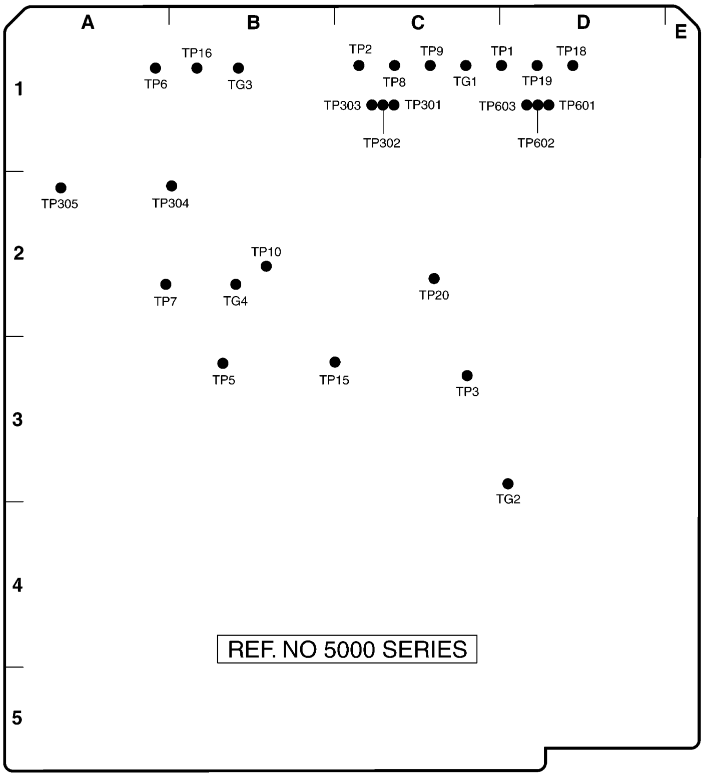
COMPONENT SIDE

F7 SERVO P.C.BOARD (VEP82238A)


A
B
C
D
E
F
G
H
J
K
1
2
3
4
5
TP2231
TP2232
TP2233
TP2301
TP2300
TG2001
TP2230
TP2651
TP2652
TP2320
TP2161
TP2081
TP2123
TP2163
TP2083
TP2121
TP2450
TG2004
TP2120
TP2160
TP2122
TP2162
TP2080
TP2082
TP2401
TP2400
TP2451
TP2305
TP2001
TP2030
TP2201
TP2302
TG2002
TP2031
TP2280
TP2282
TP2281
REF. NO 2000 SERIES

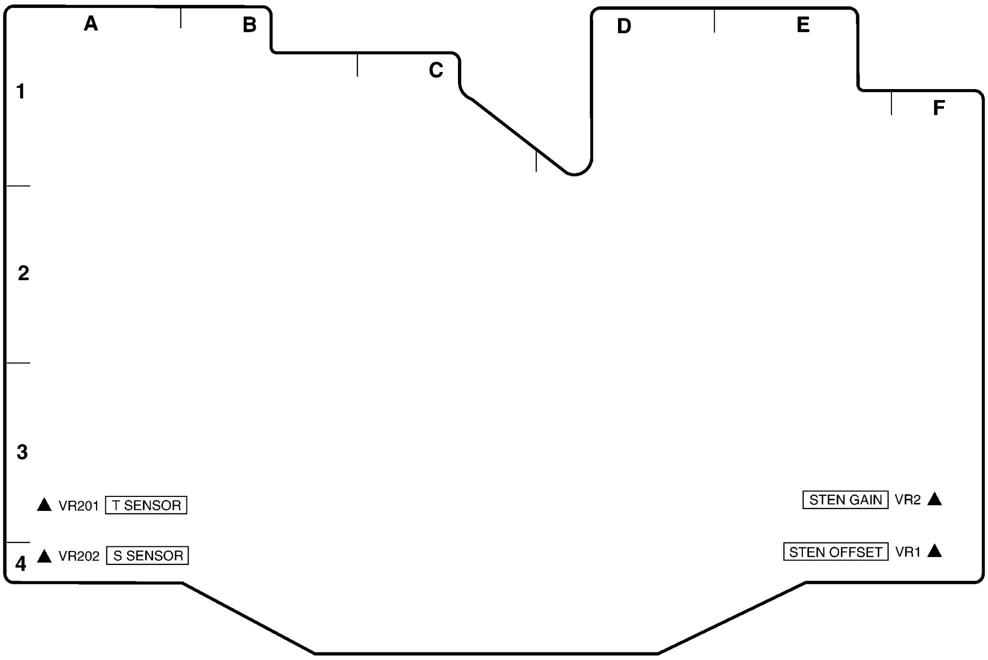
COMPONENT SIDE

F8 RF EQ P.C.BOARD (VEP85196A)


A
B
C
D
E
1
2
3
4
5
TP16
TP6
TG3
TP2
TP9
TP1
TP18
TP8
TG1
TP19
TP303
TP301
TP603
TP601
TP302
TP602
TP305
TP304
TP10
TP7
TG4
TP20
TP5
TP15
TP3
TG2
REF. NO 5000 SERIES

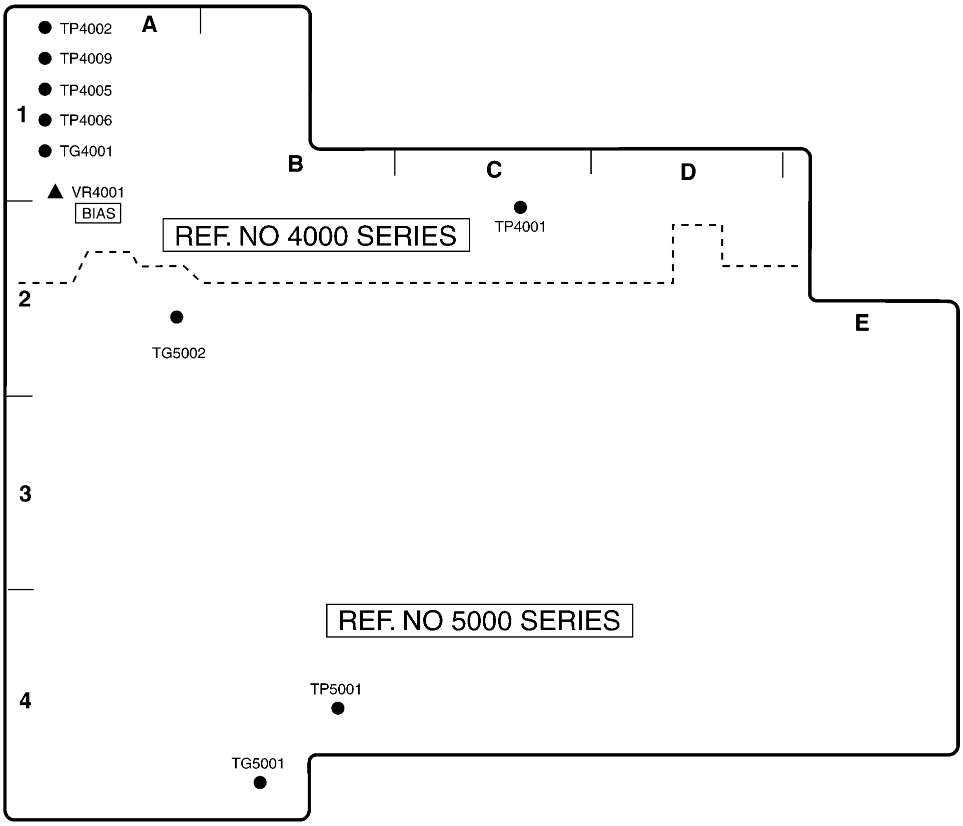
COMPONENT SIDE

MECHA IF P.C.BOARD (VEP82239A)


A
B
C
D
E
F
1
2
3
4
▲ VR201 T SENSOR
▲ VR202 S SENSOR
STEN GAIN VR2 ▲
STEN OFFSET VR1 ▲

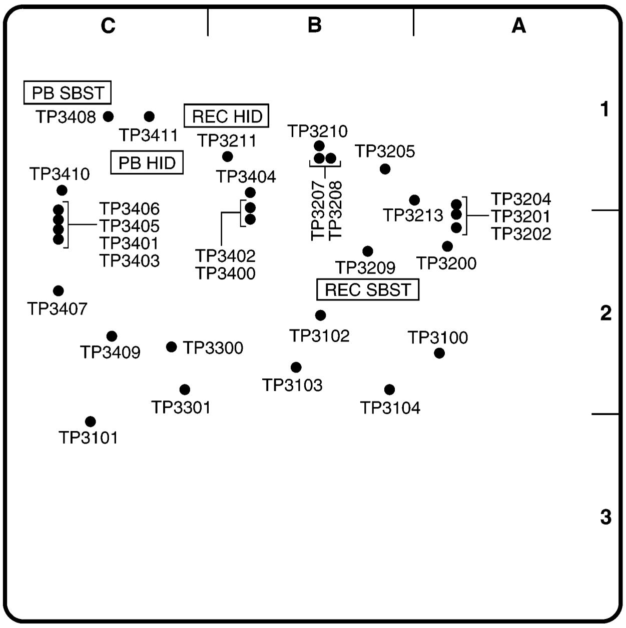
COMPONENT SIDE

RF CUE P.C.BOARD (VEP85197A)


A
B
C
D
E
1
2
3
4
● TP4002
● TP4009
● TP4005
● TP4006
● TG4001
▲ VR4001
BIAS
REF. NO 4000 SERIES
TP4001
TG5002
REF. NO 5000 SERIES
TP5001
TG5001

COMPONENT SIDE

CSP SUB P.C.BOARD (VEP83555A)


C
B
A
1
2
3
PB SBST
TP3408
TP3411
REC HID
TP3211
PB HID
TP3410
TP3404
TP3210
TP3205
TP3207
TP3208
TP3406
TP3405
TP3401
TP3403
TP3402
TP3400
TP3213
TP3204
TP3201
TP3202
TP3209
TP3200
REC SBST
TP3407
TP3102
TP3100
TP3409
TP3300
TP3103
TP3301
TP3104
TP3101

FOIL SIDE

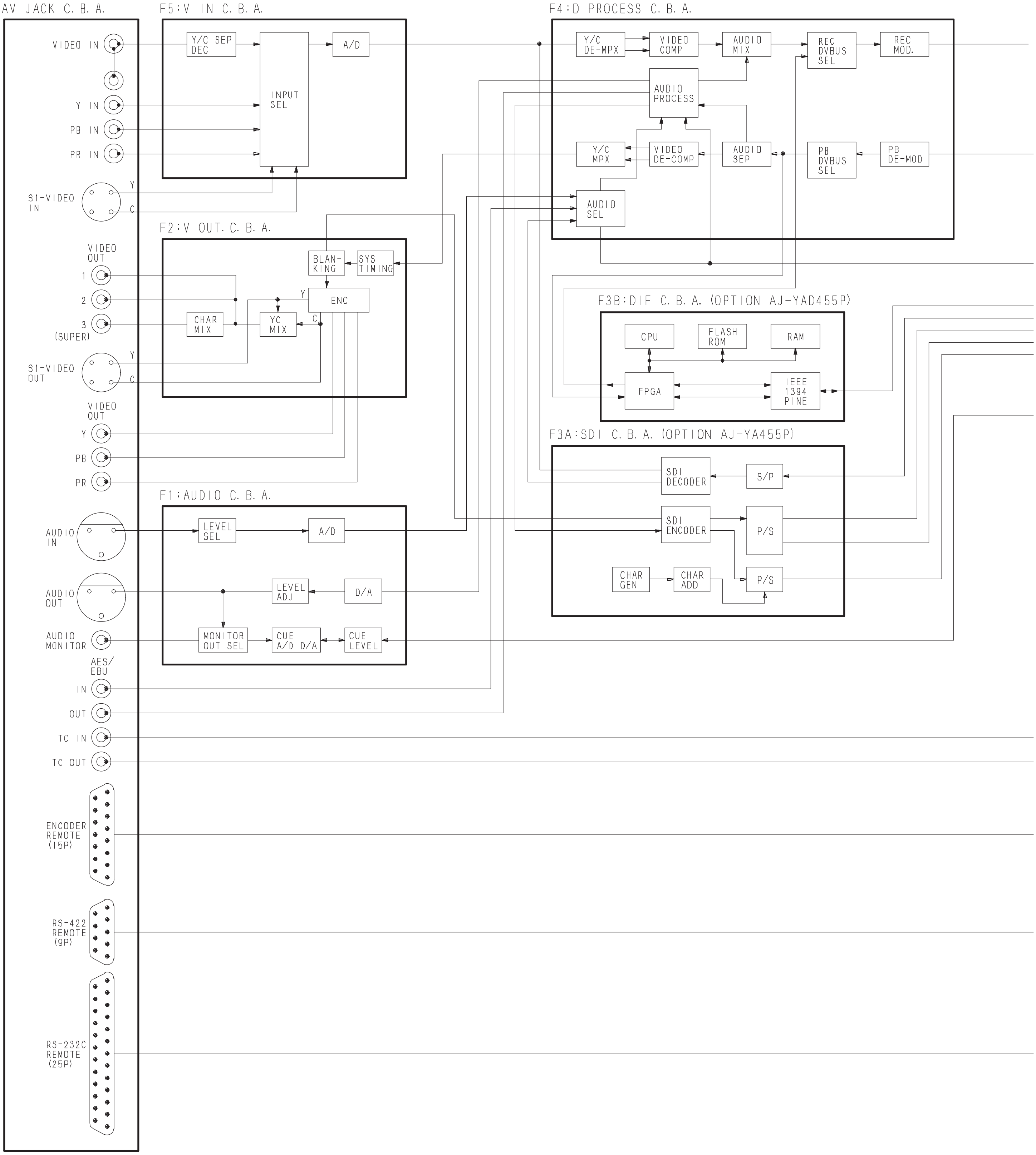
SECTION 4

BLOCK DIAGRAMS

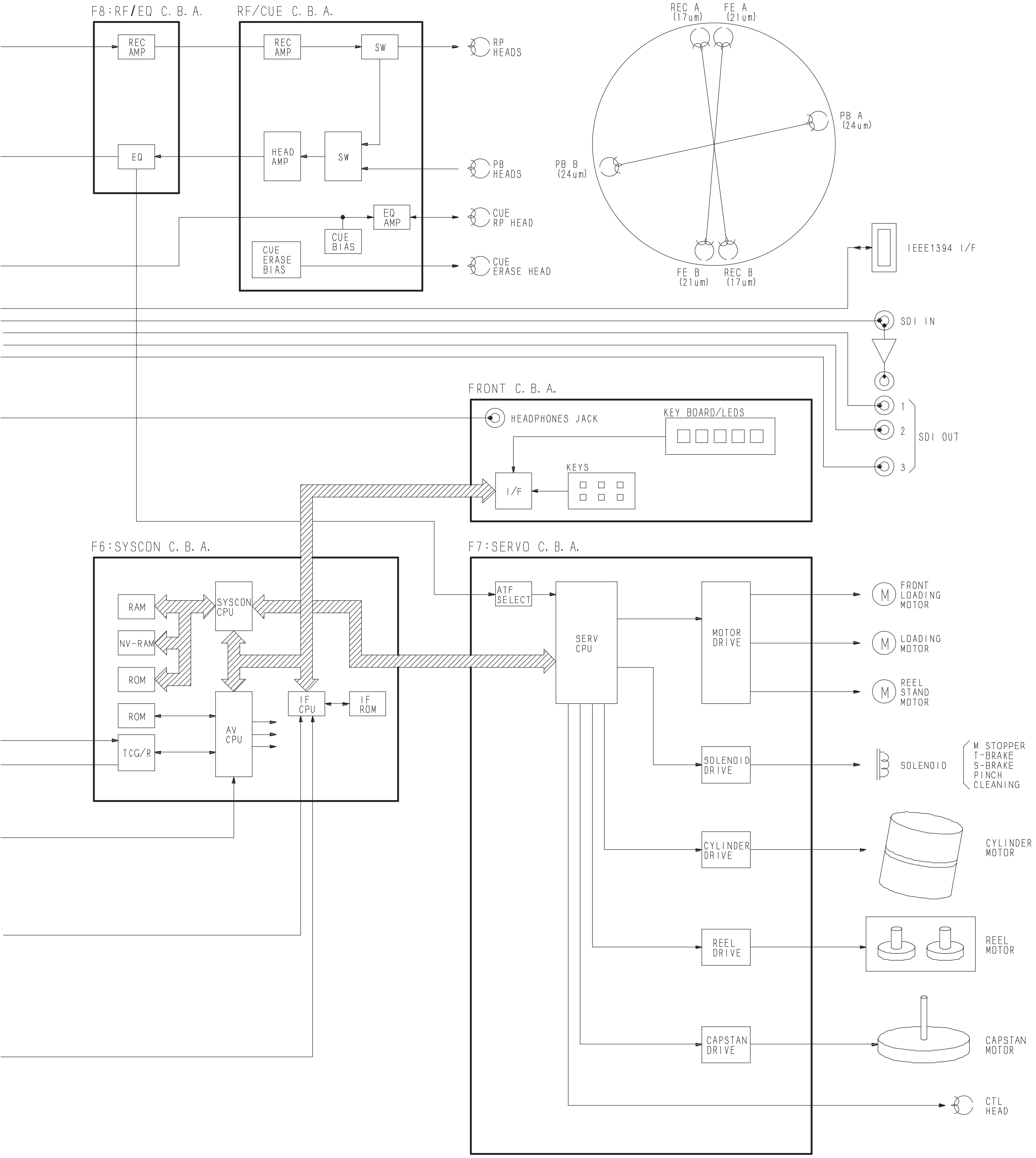
CONTENTS

OVERALL BLOCK DIAGRAM BLK-1
F1: AUDIO BLOCK DIAGRAM BLK-3
F2: VIDEO OUT BLOCK DIAGRAM BLK-5
F4: D PROCESS BLOCK DIAGRAM BLK-7
F5: VIDEO IN BLOCK DIAGRAM BLK-12
F6: SYSCON BLOCK DIAGRAM BLK-14
FRONT BLOCK DIAGRAM BLK-16
F7: SERVO BLOCK DIAGRAM BLK-17
RF CUE BLOCK DIAGRAM BLK-19
F8: RF/EQ BLOCK DIAGRAM BLK-20
F3A: SDI BLOCK DIAGRAM (AJ-YA455P) BLK-21
F3B: DIF BLOCK DIAGRAM (AJ-YAD455P) BLK-23

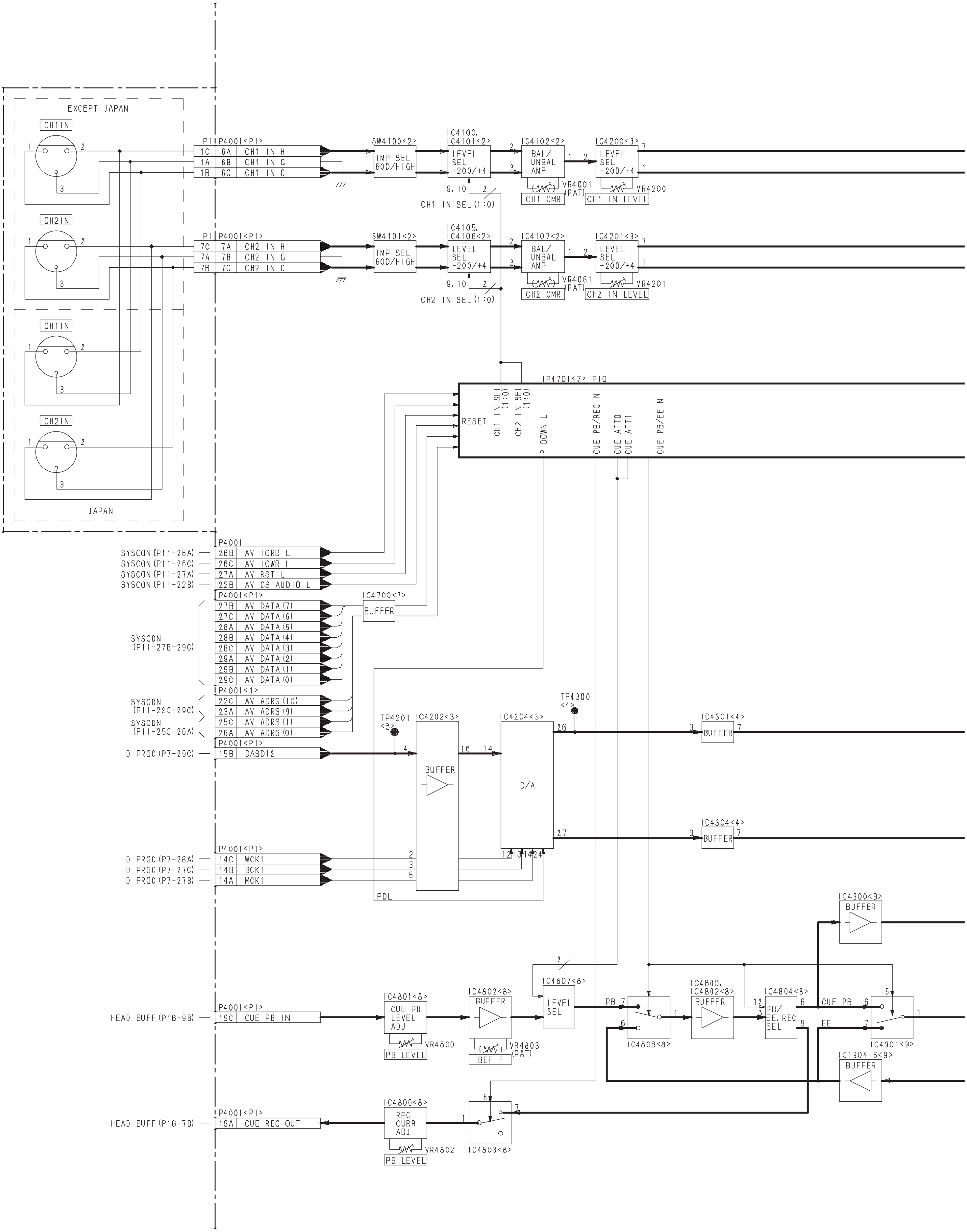
OVERALL BLOCK DIAGRAM (1/2)


AV JACK C. B. A.
VIDEO IN
Y IN
PB IN
PR IN
S1-VIDEO IN
Y
C
VIDEO OUT
1
2
3 (SUPER)
S1-VIDEO OUT
VIDEO OUT
Y
PB
PR
AUDIO IN
AUDIO OUT
AUDIO MONITOR
AES/EBU
IN
OUT
TC IN
TC OUT
ENCODER REMOTE (15P)
RS-422 REMOTE (9P)
RS-232C REMOTE (25P)
F5:V IN C. B. A.
Y/C SEP DEC
INPUT SEL
A/D
F2:V OUT. C. B. A.
BLAN-KING
SYS TIMING
ENC
CHAR MIX
YC MIX
F1:AUDIO C. B. A.
LEVEL SEL
A/D
LEVEL ADJ
D/A
MONITOR OUT SEL
CUE A/D D/A
CUE LEVEL
F4:D PROCESS C. B. A.
Y/C DE-MPX
VIDEO COMP
AUDIO MIX
REC DVBUS SEL
REC MOD.
AUDIO PROCESS
Y/C MPX
VIDEO DE-COMP
AUDIO SEP
PB DVBUS SEL
PB DE-MOD
AUDIO SEL
F3B:DIF C. B. A. (OPTION AJ-YAD455P)
CPU
FLASH ROM
RAM
FPGA
IEEE 1394 PINE
F3A:SDI C. B. A. (OPTION AJ-YA455P)
SDI DECODER
S/P
SDI ENCODER
P/S
CHAR GEN
CHAR ADD
P/S

OVERALL BLOCK DIAGRAM (2/2)

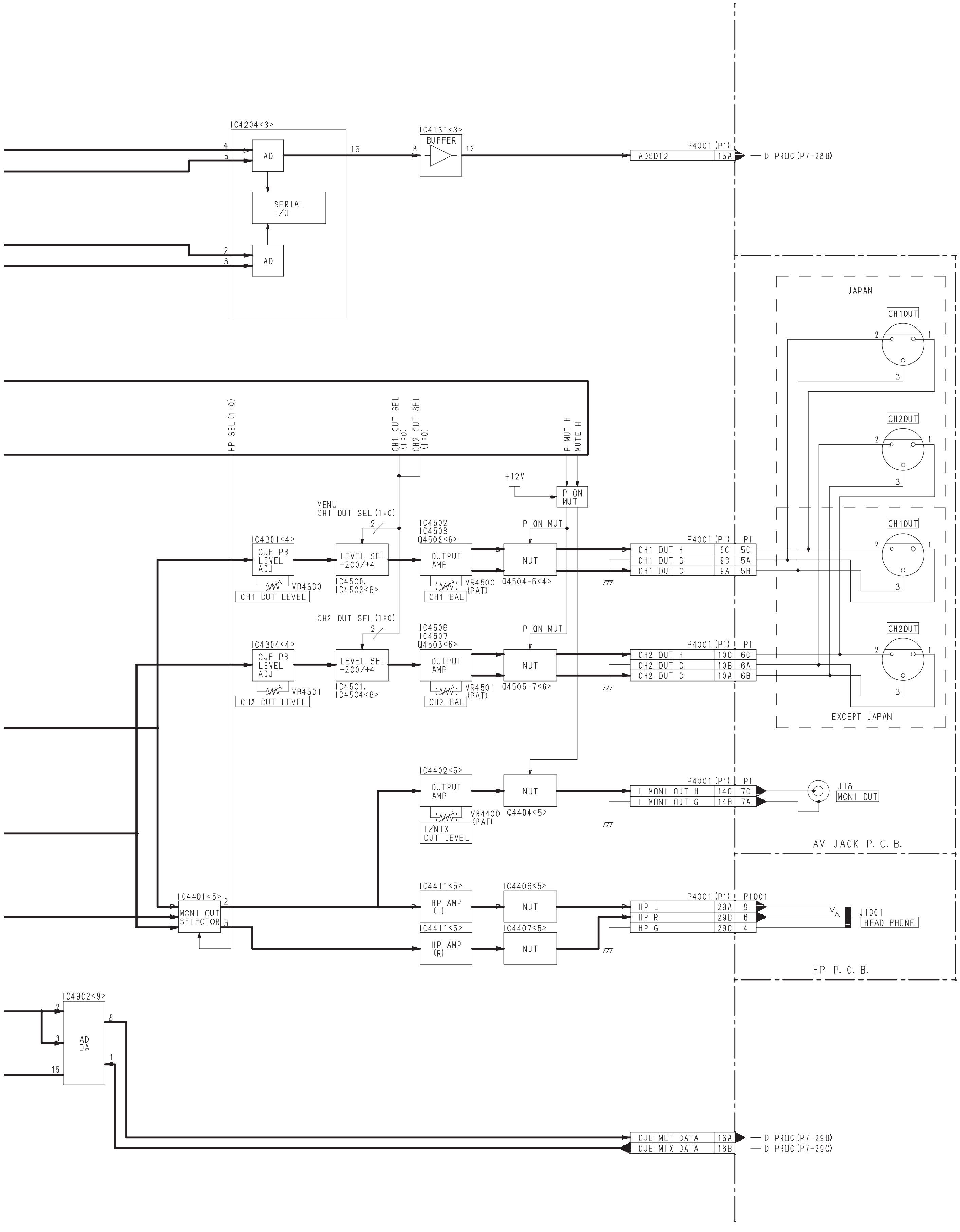

F8:RF/EQ C.B.A.
REC AMP
EQ
RF/CUE C.B.A.
REC AMP
SW
HEAD AMP
SW
EQ AMP
CUE BIAS
CUE ERASE BIAS
RP HEADS
PB HEADS
CUE RP HEAD
CUE ERASE HEAD
REC A (17um)
FE A (21um)
PB A (24um)
PB B (24um)
FE B (21um)
REC B (17um)
IEEE1394 I/F
SDI IN
1
2
3
SDI OUT
FRONT C.B.A.
HEADPHONES JACK
KEY BOARD/LEDS
KEYS
I/F
F6:SYSCON C.B.A.
RAM
NV-RAM
ROM
ROM
TCG/R
SYSCON CPU
AV CPU
IF CPU
IF ROM
F7:SERVO C.B.A.
ATF SELECT
SERV CPU
MOTOR DRIVE
SOLENOID DRIVE
CYLINDER DRIVE
REEL DRIVE
CAPSTAN DRIVE
M
FRONT LOADING MOTOR
M
LOADING MOTOR
M
REEL STAND MOTOR
SOLENOID
M STOPPER
T-BRAKE
S-BRAKE
PINCH
CLEANING
CYLINDER MOTOR
REEL MOTOR
CAPSTAN MOTOR
CTL HEAD

F1:AUDIO BLOCK DIAGRAM (1/2)



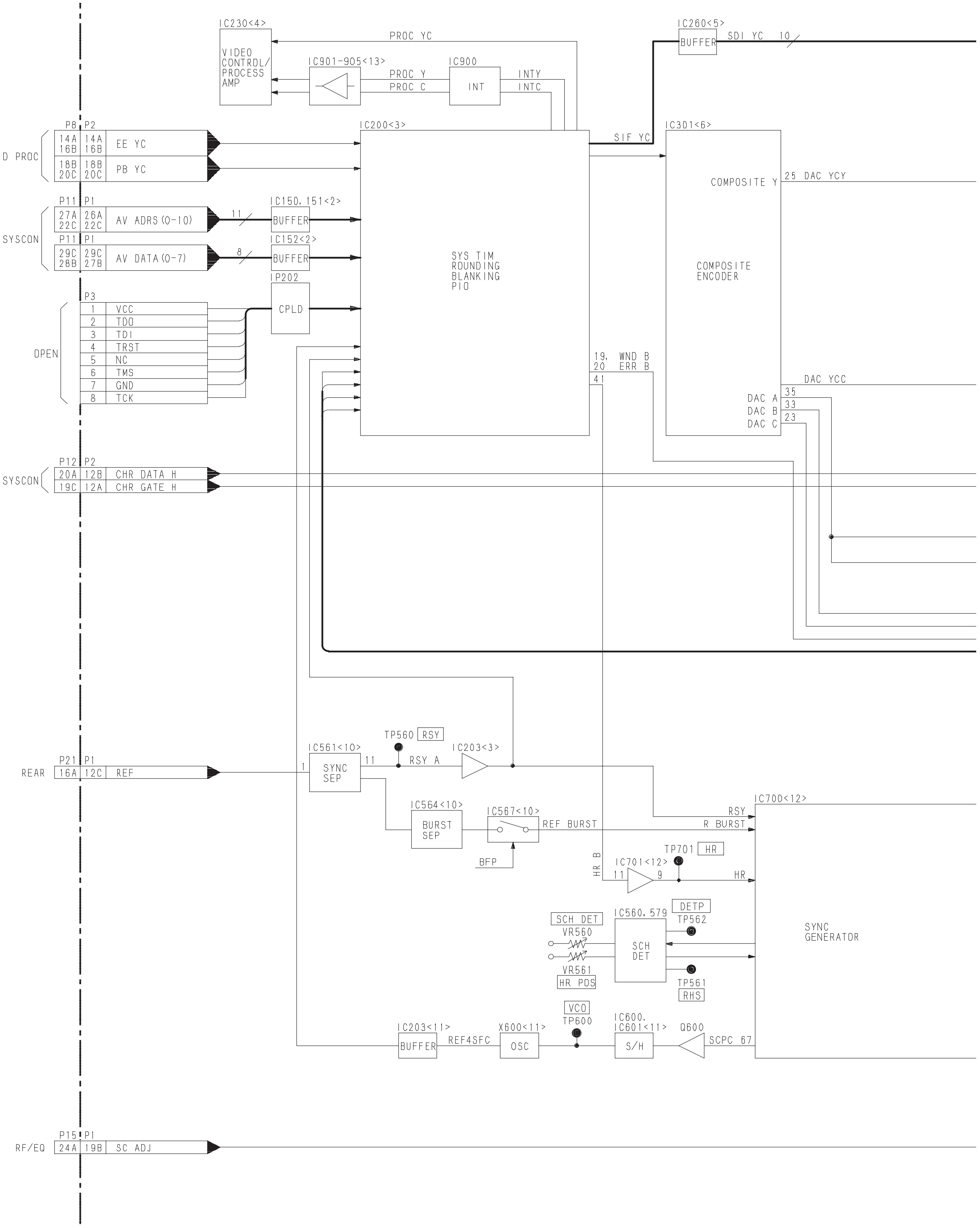
EXCEPT JAPAN
CH1IN
CH2IN
CH1IN
CH2IN
JAPAN
1
2
3
P1
P4001<P1>
1C 6A CH1 IN H
1A 6B CH1 IN G
1B 6C CH1 IN C
7C 7A CH2 IN H
7A 7B CH2 IN G
7B 7C CH2 IN C
SW4100<2>
INP SEL 600/HIGH
SW4101<2>
IC4100, IC4101<2>
IC4105, IC4106<2>
LEVEL SEL -200/+4
9, 10
CH1 IN SEL(1:0)
CH2 IN SEL(1:0)
IC4102<2>
IC4107<2>
BAL/ UNBAL AMP
VR4001 (PAT)
VR4061 (PAT)
CH1 CMR
CH2 CMR
IC4200<3>
IC4201<3>
VR4200
VR4201
CH1 IN LEVEL
CH2 IN LEVEL
IP4701<7> P10
RESET
CH1 IN SEL (1:0)
CH2 IN SEL (1:0)
P DOWN L
CUE PB/REC N
CUE ATT0
CUE ATT1
CUE PB/EE N
SYSCON(P11-26A)
SYSCON(P11-26C)
SYSCON(P11-27A)
SYSCON(P11-22B)
P4001
26B AV IORD L
26C AV IOWR L
27A AV RST L
22B AV CS AUDIO L
P4001<P1>
27B AV DATA(7)
27C AV DATA(6)
28A AV DATA(5)
28B AV DATA(4)
28C AV DATA(3)
29A AV DATA(2)
29B AV DATA(1)
29C AV DATA(0)
SYSCON (P11-27B-29C)
IC4700<7>
BUFFER
P4001<1>
22C AV ADRS(10)
23A AV ADRS(9)
25C AV ADRS(1)
26A AV ADRS(0)
SYSCON (P11-22C·29C)
SYSCON (P11-25C·26A)
P4001<P1>
D PROC(P7-29C)
15B DASD12
TP4201 <3>
IC4202<3>
BUFFER
IC4204<3>
D/A
TP4300 <4>
16
14
26
27
IC4301<4>
IC4304<4>
BUFFER
P4001<P1>
D PROC(P7-28A)
D PROC(P7-27C)
D PROC(P7-27B)
14C WCK1
14B BCK1
14A MCK1
12 13 14 24
PDL
IC4900<9>
BUFFER
IC4807<8>
LEVEL SEL
HEAD BUFF(P16-9B)
P4001<P1>
19C CUE PB IN
IC4801<8>
CUE PB LEVEL ADJ
VR4800
PB LEVEL
IC4802<8>
BUFFER
VR4803 (PAT)
BEF F
PB
IC4808<8>
IC4800, IC4802<8>
BUFFER
IC4804<8>
PB/ EE, REC SEL
CUE PB
EE
IC4901<9>
IC1904-6<9>
BUFFER
HEAD BUFF(P16-7B)
P4001<P1>
19A CUE REC OUT
IC4800<8>
REC CURR ADJ
VR4802
PB LEVEL
IC4803<8>

F1:AUDIO BLOCK DIAGRAM (2/2)



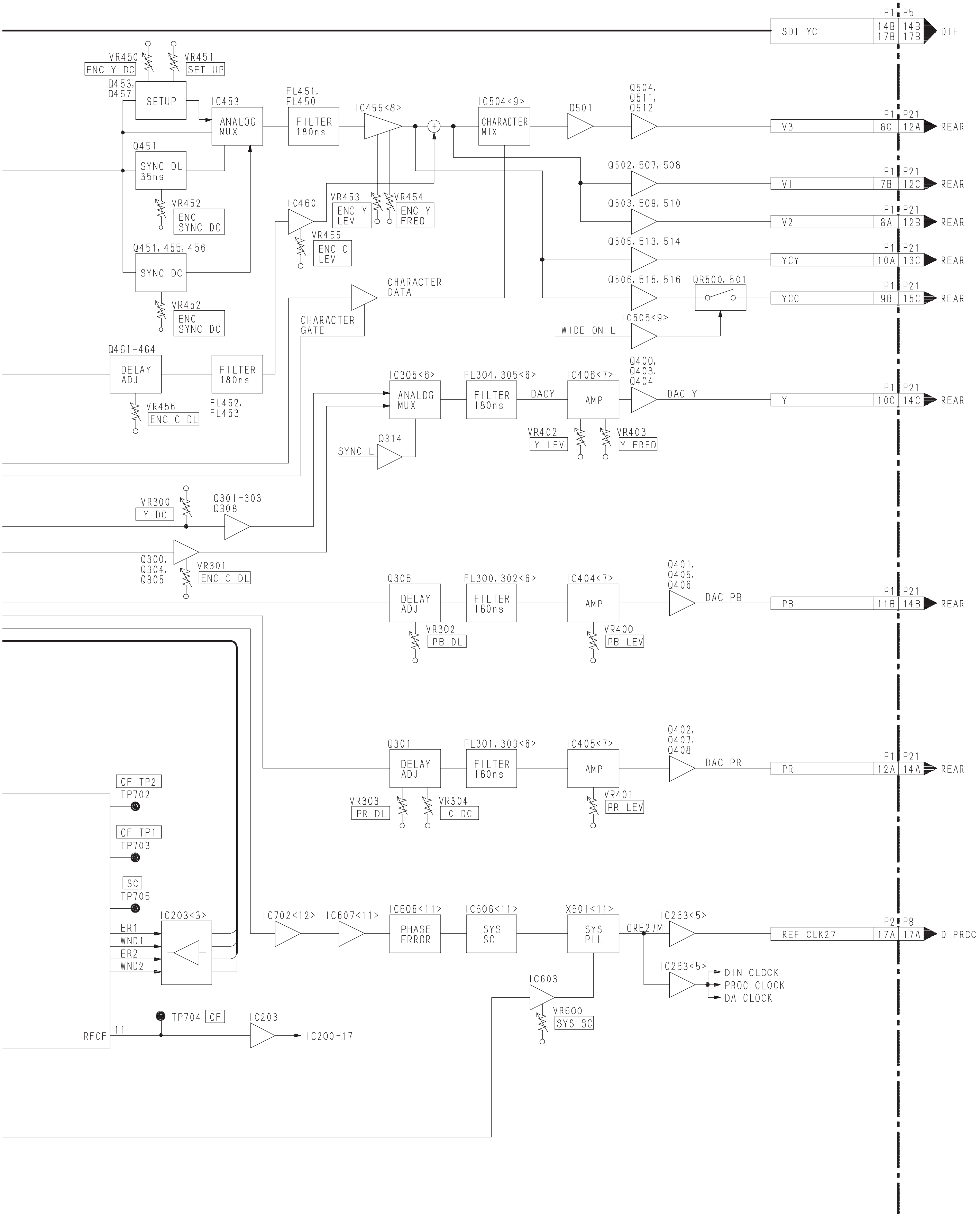
IC4204<3>
AD
SERIAL I/O
AD
4
5
2
3
15
IC4131<3>
BUFFER
8
12
P4001(P1)
ADSD12
15A
D PROC(P7-28B)
HP SEL(1:0)
CH1 OUT SEL (1:0)
CH2 OUT SEL (1:0)
P MUT H
MUTE H
+12V
P ON MUT
MENU
CH1 OUT SEL(1:0)
2
IC4301<4>
CUE PB LEVEL ADJ
VR4300
CH1 OUT LEVEL
LEVEL SEL -200/+4
IC4500,
IC4503<6>
IC4502
IC4503
Q4502<6>
OUTPUT AMP
VR4500 (PAT)
CH1 BAL
P ON MUT
MUT
Q4504-6<4>
P4001(P1)
P1
CH1 OUT H
9C
5C
CH1 OUT G
9B
5A
CH1 OUT C
9A
5B
CH2 OUT SEL(1:0)
2
IC4304<4>
CUE PB LEVEL ADJ
VR4301
CH2 OUT LEVEL
LEVEL SEL -200/+4
IC4501,
IC4504<6>
IC4506
IC4507
Q4503<6>
OUTPUT AMP
VR4501 (PAT)
CH2 BAL
P ON MUT
MUT
Q4505-7<6>
P4001(P1)
P1
CH2 OUT H
10C
6C
CH2 OUT G
10B
6A
CH2 OUT C
10A
6B
JAPAN
CH1OUT
CH2OUT
CH1OUT
CH2OUT
1
2
3
EXCEPT JAPAN
IC4402<5>
OUTPUT AMP
VR4400 (PAT)
L/MIX OUT LEVEL
MUT
Q4404<5>
P4001(P1)
P1
L MONI OUT H
14C
7C
L MONI OUT G
14B
7A
J18
MONI OUT
AV JACK P. C. B.
IC4401<5>
MONI OUT SELECTOR
2
3
IC4411<5>
HP AMP (L)
IC4406<5>
MUT
IC4411<5>
HP AMP (R)
IC4407<5>
MUT
P4001(P1)
P1001
HP L
29A
8
HP R
29B
6
HP G
29C
4
J1001
HEAD PHONE
HP P. C. B.
IC4902<9>
AD DA
2
3
15
8
1
CUE MET DATA
16A
CUE MIX DATA
16B
D PROC(P7-29B)
D PROC(P7-29C)

F2:VIDEO OUT BLOCK DIAGRAM (1/2)

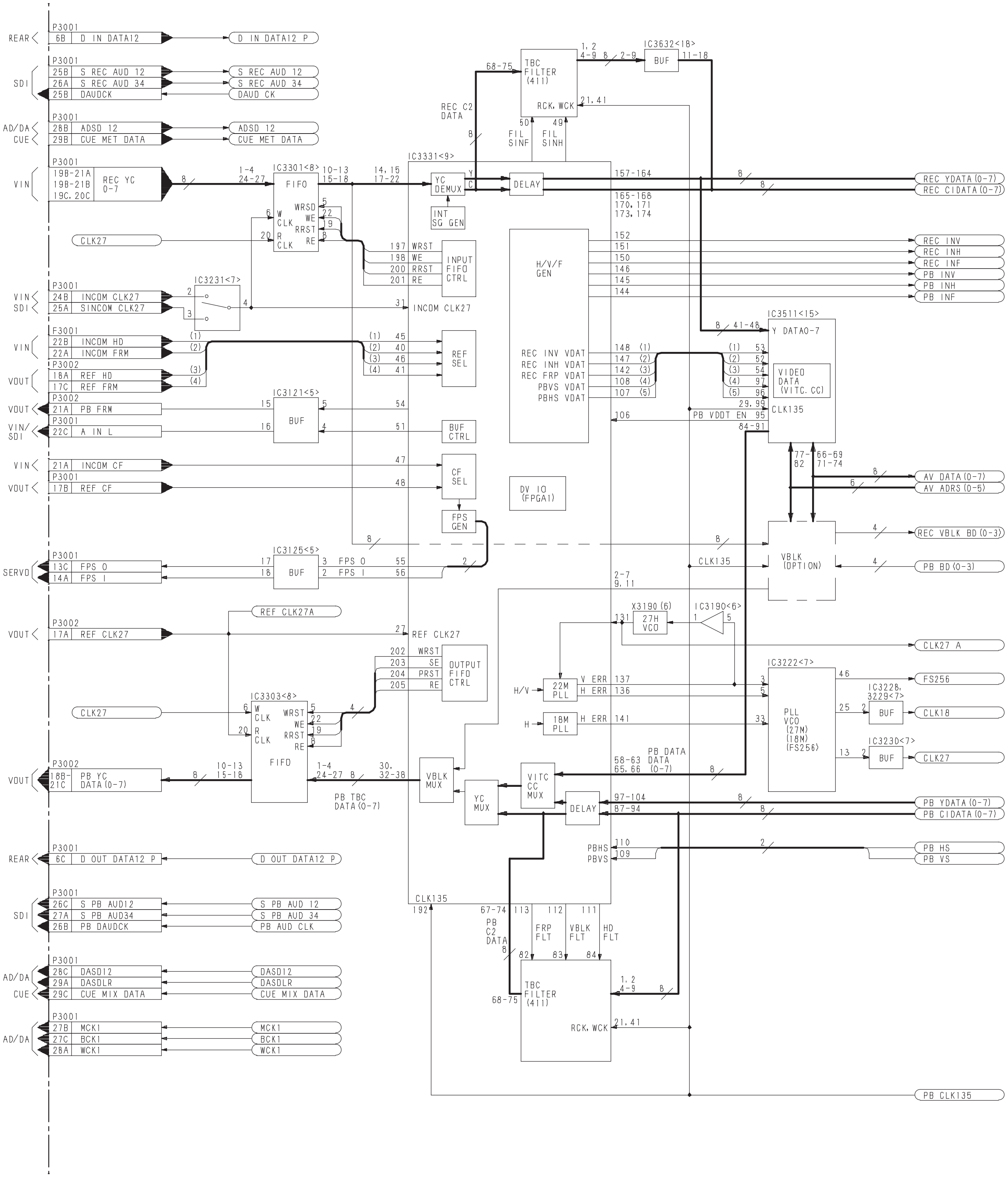


IC230<4>
VIDEO CONTROL/ PROCESS AMP
PROC YC
IC901-905<13>
IC900
PROC Y
PROC C
INT
INTY
INTC
IC260<5>
BUFFER
SDI YC
10
D PROC
P8
P2
14A
16B
18B
20C
EE YC
PB YC
IC200<3>
SIF YC
IC301<6>
COMPOSITE Y
25 DAC YCY
SYSCON
P11
P1
27A
22C
26A
AV ADRS (0-10)
11
IC150, 151<2>
BUFFER
29C
28B
27B
AV DATA (0-7)
8
IC152<2>
IP202
CPLD
SYS TIM ROUNDING BLANKING PIO
COMPOSITE ENCODER
OPEN
P3
1 VCC
2 TDO
3 TDI
4 TRST
5 NC
6 TMS
7 GND
8 TCK
19, WND B
20 ERR B
41
DAC YCC
DAC A
DAC B
DAC C
35
33
23
P12
20A
19C
12B
12A
CHR DATA H
CHR GATE H
TP560
RSY
IC561<10>
IC203<3>
REAR
P21
16A
12C
REF
1
SYNC SEP
RSY A
IC564<10>
IC567<10>
BURST SEP
REF BURST
BFP
IC700<12>
RSY
R BURST
TP701
HR
HR B
IC701<12>
9
SCH DET
VR560
IC560, 579
DETP
TP562
SCH DET
SYNC GENERATOR
VR561
HR POS
TP561
RHS
VCO
TP600
IC203<11>
X600<11>
IC600, IC601<11>
Q600
REF4SFC
OSC
S/H
SCPC 67
RF/EQ
P15
24A
19B
SC ADJ

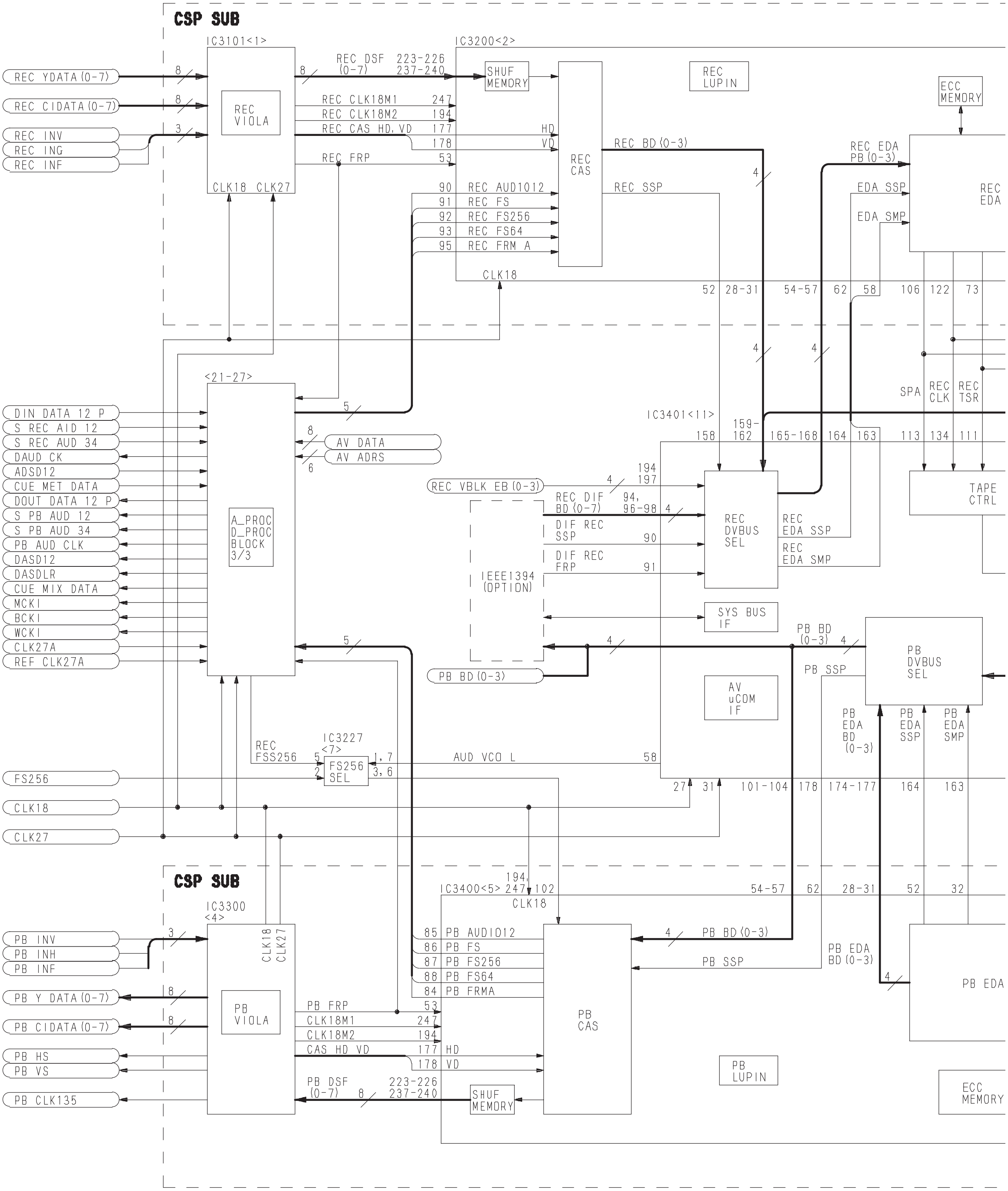
F2:VIDEO OUT BLOCK DIAGRAM (2/2)


SDI YC
P1 P5
14B 14B
17B 17B
DIF
VR450
ENC Y DC
VR451
SET UP
Q453,
Q457
SETUP
IC453
ANALOG
MUX
FL451,
FL450
FILTER
180ns
IC455<8>
IC504<9>
CHARACTER
MIX
Q501
Q504,
Q511,
Q512
V3
P1 P21
8C 12A
REAR
Q451
SYNC DL
35ns
VR452
ENC
SYNC DC
Q502, 507, 508
V1
7B 12C
Q503, 509, 510
V2
8A 12B
IC460
VR453
ENC Y
LEV
VR454
ENC Y
FREQ
VR455
ENC C
LEV
Q451, 455, 456
SYNC DC
Q505, 513, 514
YCY
10A 13C
CHARACTER
DATA
Q506, 515, 516
QR500, 501
YCC
9B 15C
CHARACTER
GATE
IC505<9>
WIDE ON L
Q461-464
DELAY
ADJ
FILTER
180ns
FL452,
FL453
VR456
ENC C DL
IC305<6>
ANALOG
MUX
FL304, 305<6>
FILTER
180ns
DACY
IC406<7>
AMP
Q400,
Q403,
Q404
DAC Y
Y
10C 14C
VR402
Y LEV
VR403
Y FREQ
Q314
SYNC L
VR300
Y DC
Q301-303
Q308
Q300,
Q304,
Q305
VR301
ENC C DL
Q306
DELAY
ADJ
FL300, 302<6>
FILTER
160ns
IC404<7>
AMP
Q401,
Q405,
Q406
DAC PB
PB
11B 14B
VR302
PB DL
VR400
PB LEV
Q301
DELAY
ADJ
FL301, 303<6>
FILTER
160ns
IC405<7>
AMP
Q402,
Q407,
Q408
DAC PR
PR
12A 14A
VR303
PR DL
VR304
C DC
VR401
PR LEV
CF TP2
TP702
CF TP1
TP703
SC
TP705
IC203<3>
ER1
WND1
ER2
WND2
IC702<12>
IC607<11>
IC606<11>
PHASE
ERROR
IC606<11>
SYS
SC
X601<11>
SYS
PLL
QRF27M
IC263<5>
REF CLK27
P2 P8
17A 17A
D PRDC
IC263<5>
DIN CLOCK
PROC CLOCK
DA CLOCK
IC603
VR600
SYS SC
TP704
CF
IC203
IC200-17
RFCF
11

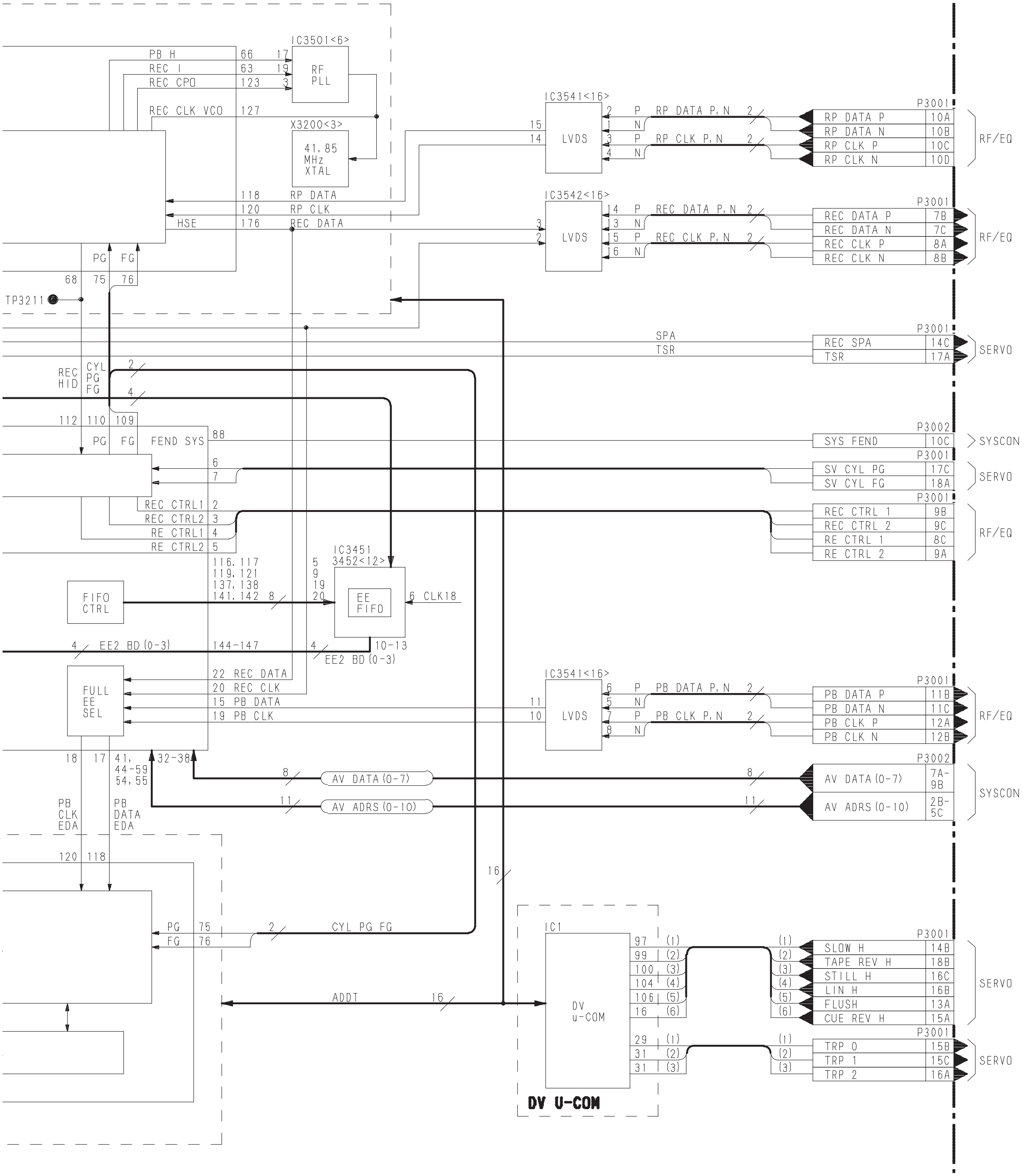
F4:D PROCESS BLOCK DIAGRAM (1/5)


REAR
P3001
6B D IN DATA12
D IN DATA12 P
SDI
P3001
25B S REC AUD 12
26A S REC AUD 34
25B DAUDCK
S REC AUD 12
S REC AUD 34
DAUD CK
AD/DA
CUE
P3001
28B ADSD 12
29B CUE MET DATA
ADSD 12
CUE MET DATA
VIN
P3001
19B-21A
19B-21B
19C, 20C
REC YC 0-7
8
1-4
24-27
IC3301<8>
FIFO
10-13
15-18
14, 15
17-22
WRSD
WE
RRST
RE
W CLK
R CLK
5
22
19
8
6
20
CLK27
IC3331<9>
YC DEMUX
Y
C
INT SG GEN
DELAY
157-164
165-168
170, 171
173, 174
REC YDATA (0-7)
REC CIDATA (0-7)
68-75
TBC FILTER (411)
RCK, WCK
1, 2
4-9
8
2-9
IC3632<18>
BUF
11-18
21, 41
REC C2 DATA
50
49
FIL SINF
FIL SINH
197 WRST
198 WE
200 RRST
201 RE
INPUT FIFO CTRL
H/V/F GEN
152
151
150
146
145
144
REC INV
REC INH
REC INF
PB INV
PB INH
PB INF
VIN
SDI
P3001
24B INCOM CLK27
25A SINCOM CLK27
IC3231<7>
2
3
4
31 INCOM CLK27
VIN
F3001
22B INCOM HD
22A INCOM FRM
VOUT
P3002
18A REF HD
17C REF FRM
(1)
(2)
(3)
(4)
45
40
46
41
REF SEL
REC INV VDAT
REC INH VDAT
REC FRP VDAT
PBVS VDAT
PBHS VDAT
148 (1)
147 (2)
142 (3)
108 (4)
107 (5)
8 41-48
IC3511<15>
Y DATA0-7
53
52
54
97
96
29, 99
VIDEO DATA (VITC, CC)
CLK135
VOUT
P3002
21A PB FRM
VIN/SDI
P3001
22C A IN L
IC3121<5>
15
16
BUF
5
4
54
51
BUF CTRL
106
PB VDDT EN 95
84-91
VIN
21A INCOM CF
VOUT
P3001
17B REF CF
47
48
CF SEL
FPS GEN
DV IO (FPGA1)
77-82
66-69
71-74
8
6
AV DATA (0-7)
AV ADRS (0-5)
8
VBLK (OPTION)
4
REC VBLK BD (0-3)
PB BD (0-3)
SERVO
P3001
13C FPS 0
14A FPS 1
IC3125<5>
17
18
BUF
3 FPS 0
2 FPS 1
55
56
2
CLK135
2-7
9, 11
VOUT
P3002
17A REF CLK27
REF CLK27A
27 REF CLK27
X3190 (6)
27H VCO
IC3190<6>
131
1
5
CLK27 A
202 WRST
203 SE
204 PRST
205 RE
OUTPUT FIFO CTRL
IC3303<8>
CLK27
W CLK
R CLK
WRST
WE
RRST
RE
FIFO
4
H/V
22M PLL
V ERR 137
H ERR 136
H
18M PLL
H ERR 141
IC3222<7>
PLL VCO (27M) (18M) (FS256)
46
FS256
IC3228, 3229<7>
25
BUF
CLK18
IC3230<7>
13
BUF
CLK27
3
5
33
VOUT
P3002
18B-21C
PB YC DATA (0-7)
10-13
15-18
1-4
24-27
30, 32-38
PB TBC DATA (0-7)
VBLK MUX
YC MUX
VITC CC MUX
DELAY
58-63
65, 66
PB DATA (0-7)
97-104
87-94
PB YDATA (0-7)
PB CIDATA (0-7)
PBHS 110
PBVS 109
PB HS
PB VS
REAR
P3001
6C D OUT DATA12 P
D OUT DATA12 P
SDI
P3001
26C S PB AUD12
27A S PB AUD34
26B PB DAUDCK
S PB AUD 12
S PB AUD 34
PB AUD CLK
CLK135
192
67-74
PB C2 DATA
113
112
111
FRP FLT
VBLK FLT
HD FLT
82
83
84
TBC FILTER (411)
68-75
1, 2
4-9
RCK, WCK
21, 41
AD/DA
CUE
P3001
28C DASD12
29A DASDLR
29C CUE MIX DATA
DASD12
DASDLR
CUE MIX DATA
AD/DA
P3001
27B MCK1
27C BCK1
28A WCK1
MCK1
BCK1
WCK1
PB CLK135

F4:D PROCESS BLOCK DIAGRAM (2/5)

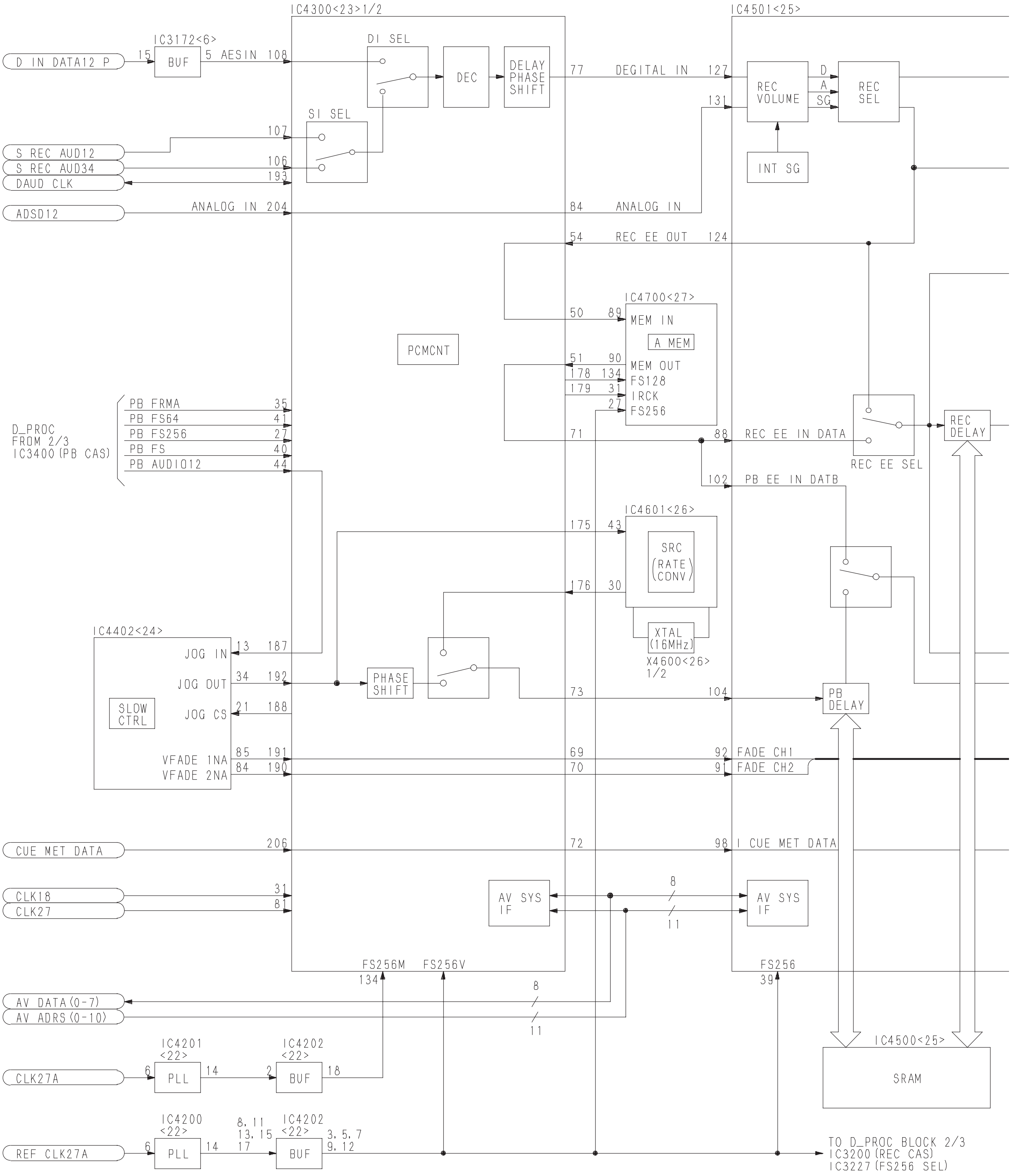

CSP SUB
IC3101<1>
REC VIOLA
CLK18 CLK27
REC YDATA (0-7)
REC CIDATA (0-7)
REC INV
REC ING
REC INF
REC DSF (0-7)
223-226
237-240
REC CLK18M1
REC CLK18M2
REC CAS HD, VD
REC FRP
IC3200<2>
SHUF MEMORY
REC CAS
HD
VD
REC LUPIN
ECC MEMORY
REC EDA
REC BD (0-3)
REC SSP
REC EDA PB (0-3)
EDA SSP
EDA SMP
REC AUD1012
REC FS
REC FS256
REC FS64
REC FRM A
CLK18
247
194
177
178
53
90
91
92
93
95
52 28-31 54-57 62 58 106 122 73
SPA
REC CLK
REC TSR
<21-27>
A_PROC D_PROC BLOCK 3/3
DIN DATA 12 P
S REC AID 12
S REC AUD 34
DAUD CK
ADSD12
CUE MET DATA
DOUT DATA 12 P
S PB AUD 12
S PB AUD 34
PB AUD CLK
DASD12
DASDLR
CUE MIX DATA
MCKI
BCKI
WCKI
CLK27A
REF CLK27A
AV DATA
AV ADRS
IC3401<11>
158
159-162
165-168
164
163
113 134 111
194
197
REC VBLK EB (0-3)
REC DIF BD (0-7)
94, 96-98
DIF REC SSP
90
DIF REC FRP
91
IEEE1394 (OPTION)
REC DVBUS SEL
REC EDA SSP
REC EDA SMP
TAPE CTRL
SYS BUS IF
PB BD (0-3)
PB SSP
PB DVBUS SEL
AV uCOM IF
PB EDA BD (0-3)
PB EDA SSP
PB EDA SMP
REC FSS256
IC3227 <7>
FS256 SEL
1, 7
3, 6
AUD VCO L
58
27 31 101-104 178 174-177 164 163
FS256
CLK18
CLK27
CSP SUB
IC3300 <4>
CLK18
CLK27
PB VIOLA
PB INV
PB INH
PB INF
PB Y DATA (0-7)
PB CIDATA (0-7)
PB HS
PB VS
PB CLK135
IC3400<5>
194, 247 102
CLK18
54-57 62 28-31 52 32
PB AUDIO12
PB FS
PB FS256
PB FS64
PB FRMA
85
86
87
88
84
PB FRP
CLK18M1
CLK18M2
CAS HD VD
53
247
194
177
178
HD
VD
PB DSF (0-7)
223-226
237-240
SHUF MEMORY
PB CAS
PB BD (0-3)
PB SSP
PB EDA BD (0-3)
PB EDA
PB LUPIN
ECC MEMORY
8
3
5
6
4

F4:D PROCESS BLOCK DIAGRAM (3/5)

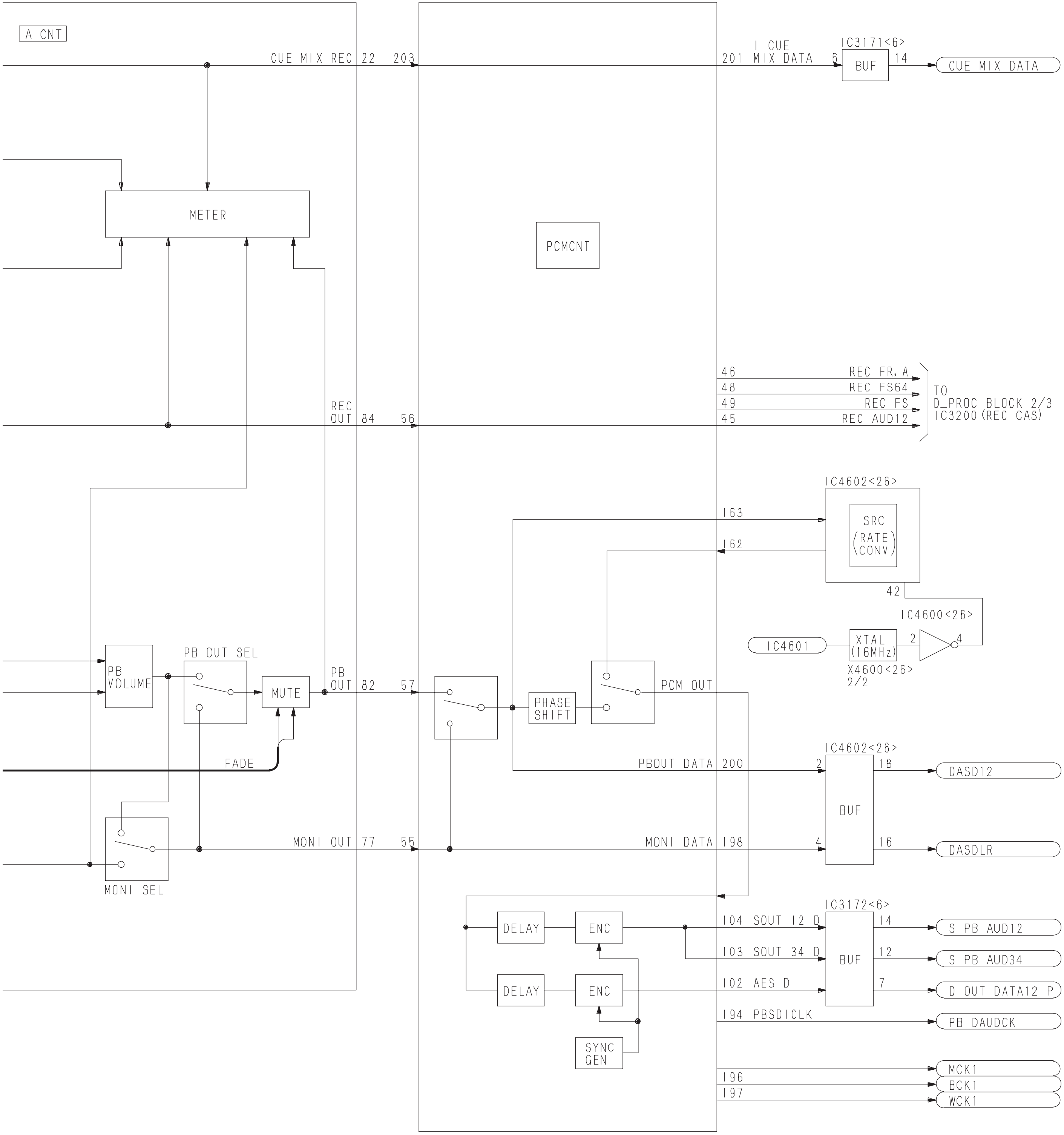


IC3501<6>
PB H
REC I
REC CPO
REC CLK VCO
66
63
123
127
17
19
3
RF PLL
X3200<3>
41.85 MHz XTAL
118 RP DATA
120 RP CLK
HSE
176 REC DATA
PG
FG
68
75
76
TP3211
IC3541<16>
LVDS
15
14
2 P
1 N
3 P
4 N
RP DATA P,N 2
RP CLK P,N 2
P3001
RP DATA P 10A
RP DATA N 10B
RP CLK P 10C
RP CLK N 10D
RF/EQ
IC3542<16>
LVDS
3
2
14 P
13 N
15 P
16 N
REC DATA P,N 2
REC CLK P,N 2
P3001
REC DATA P 7B
REC DATA N 7C
REC CLK P 8A
REC CLK N 8B
RF/EQ
SPA
TSR
P3001
REC SPA 14C
TSR 17A
SERVO
REC HID
CYL PG FG
2
4
112
110
109
PG
FG
FEND SYS
88
P3002
SYS FEND 10C
SYSCON
6
7
P3001
SV CYL PG 17C
SV CYL FG 18A
SERVO
REC CTRL1 2
REC CTRL2 3
RE CTRL1 4
RE CTRL2 5
P3001
REC CTRL 1 9B
REC CTRL 2 9C
RE CTRL 1 8C
RE CTRL 2 9A
RF/EQ
116,117
119,121
137,138
141,142 8
5
9
19
20
IC3451
3452<12>
EE FIFO
6 CLK18
FIFO CTRL
4 EE2 BD(0-3)
144-147
4
EE2 BD(0-3)
10-13
FULL EE SEL
22 REC DATA
20 REC CLK
15 PB DATA
19 PB CLK
IC3541<16>
LVDS
11
10
6 P
5 N
7 P
8 N
PB DATA P,N 2
PB CLK P,N 2
P3001
PB DATA P 11B
PB DATA N 11C
PB CLK P 12A
PB CLK N 12B
RF/EQ
18
17
41,
44-59
54,55
32-38
8
AV DATA(0-7)
8
11
AV ADRS(0-10)
11
P3002
AV DATA(0-7) 7A-9B
AV ADRS(0-10) 2B-5C
SYSCON
PB CLK EDA
PB DATA EDA
120
118
16
PG 75
FG 76
2
CYL PG FG
ADDT
16
IC1
DV u-COM
97 (1)
99 (2)
100 (3)
104 (4)
106 (5)
16 (6)
(1)
(2)
(3)
(4)
(5)
(6)
P3001
SLOW H 14B
TAPE REV H 18B
STILL H 16C
LIN H 16B
FLUSH 13A
CUE REV H 15A
SERVO
29 (1)
31 (2)
31 (3)
(1)
(2)
(3)
P3001
TRP 0 15B
TRP 1 15C
TRP 2 16A
SERVO
DV U-COM

F4:D PROCESS BLOCK DIAGRAM (4/5)

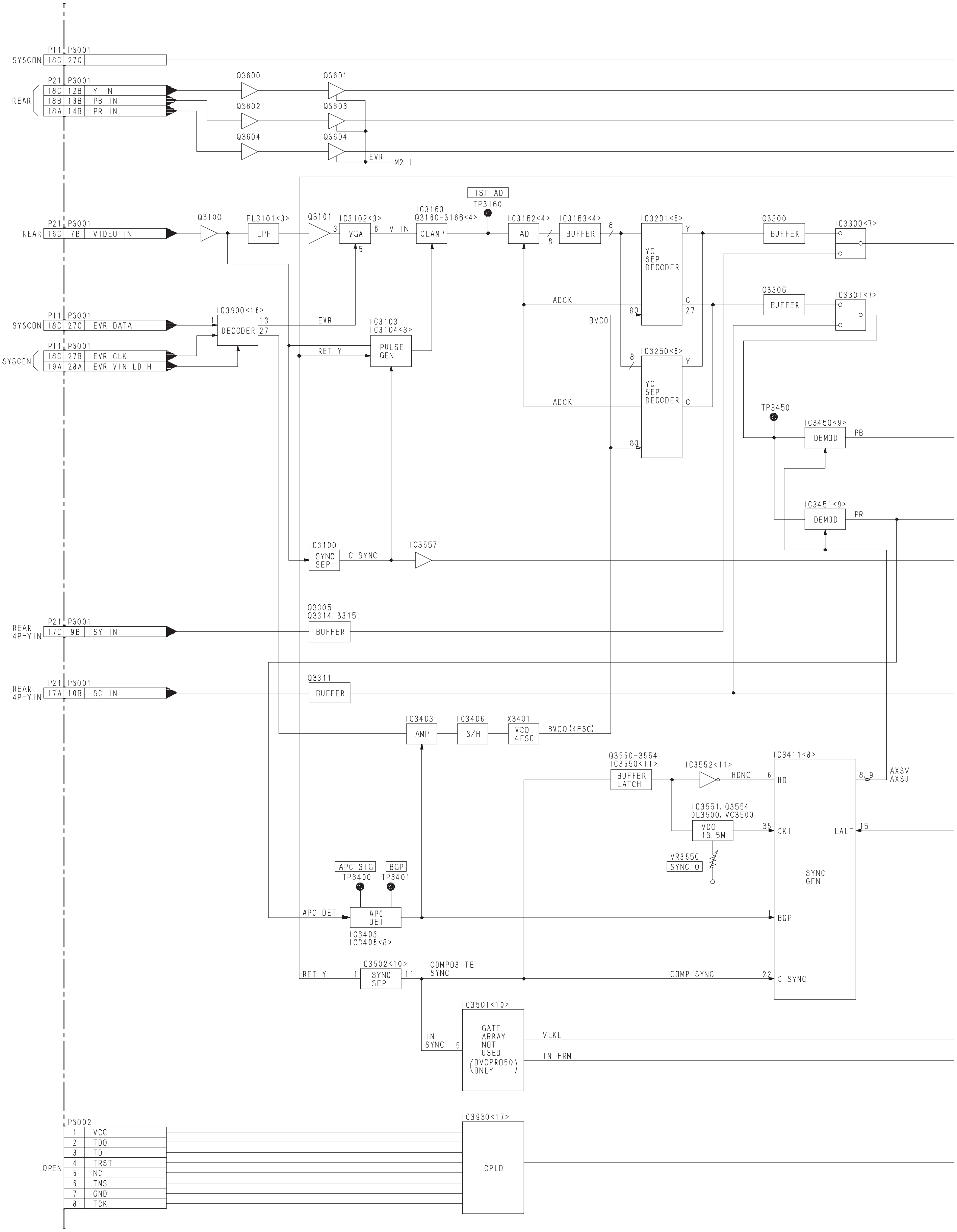

IC4300<23>1/2
IC4501<25>
IC3172<6>
D IN DATA12 P
15
BUF
5 AESIN 108
DI SEL
DEC
DELAY PHASE SHIFT
77 DEGITAL IN 127
REC VOLUME
D
A
SG
REC SEL
131
SI SEL
107
S REC AUD12
S REC AUD34
106
DAUD CLK
193
INT SG
ADSD12
ANALOG IN 204
84 ANALOG IN
54 REC EE OUT 124
IC4700<27>
50 89 MEM IN
A MEM
PCMCNT
51 90 MEM OUT
178 134 FS128
179 31 IRCK
27 FS256
PB FRMA 35
PB FS64 41
PB FS256 27
PB FS 40
PB AUDIO12 44
D_PROC FROM 2/3 IC3400 (PB CAS)
71
88 REC EE IN DATA
REC EE SEL
REC DELAY
102 PB EE IN DATB
IC4601<26>
175 43
SRC (RATE CONV)
176 30
XTAL (16MHz)
X4600<26> 1/2
IC4402<24>
JOG IN 13 187
JOG OUT 34 192
JOG CS 21 188
SLOW CTRL
PHASE SHIFT
73
104
PB DELAY
VFADE 1NA 85 191
VFADE 2NA 84 190
69
70
92 FADE CH1
91 FADE CH2
CUE MET DATA
206
72
98 I CUE MET DATA
CLK18 31
CLK27 81
AV SYS IF
8
11
AV SYS IF
FS256M 134
FS256V
FS256 39
AV DATA (0-7)
AV ADRS (0-10)
8
11
IC4500<25>
SRAM
IC4201 <22>
CLK27A
6
PLL
14
IC4202 <22>
2
BUF
18
IC4200 <22>
REF CLK27A
6
PLL
14
8, 11 13, 15 17
IC4202 <22>
BUF
3, 5, 7 9, 12
TO D_PROC BLOCK 2/3 IC3200 (REC CAS) IC3227 (FS256 SEL)

F4:D PROCESS BLOCK DIAGRAM (5/5)



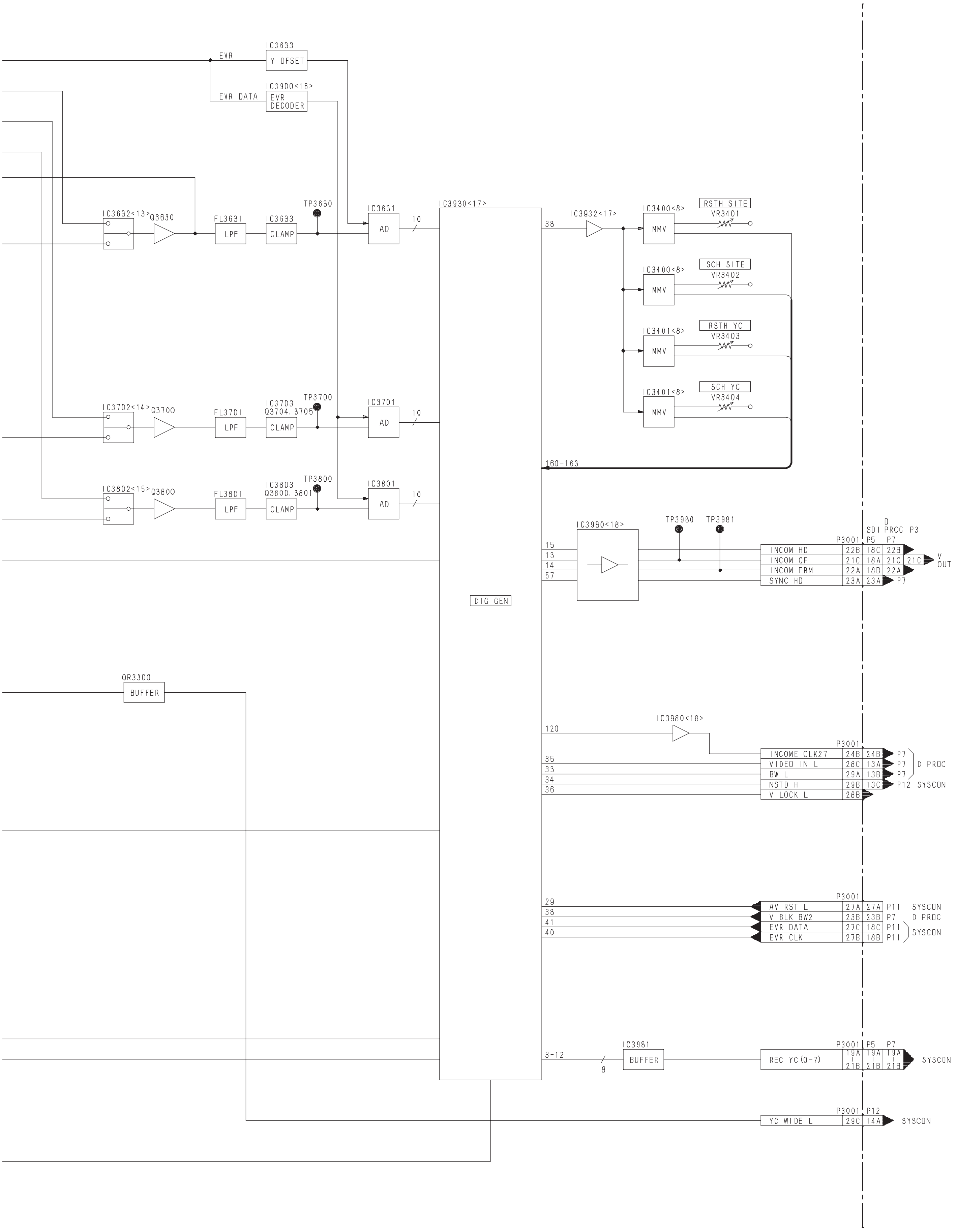
A CNT
CUE MIX REC 22
203
IC4300<23>2/2
201
I CUE
MIX DATA
IC3171<6>
6
BUF
14
CUE MIX DATA
METER
PCMCNT
REC
OUT 84
56
46
48
49
45
REC FR, A
REC FS64
REC FS
REC AUD12
TO
D_PROC BLOCK 2/3
IC3200 (REC CAS)
IC4602<26>
163
162
SRC
(RATE
CONV)
42
IC4600<26>
IC4601
XTAL
(16MHz)
X4600<26>
2/2
2
4
PB
VOLUME
PB OUT SEL
MUTE
PB
OUT 82
57
PHASE
SHIFT
PCM OUT
FADE
PBOUT DATA 200
IC4602<26>
2
18
DASD12
BUF
MONI OUT 77
55
MONI DATA 198
4
16
DASDLR
MONI SEL
IC3172<6>
DELAY
ENC
104 SOUT 12 D
14
S PB AUD12
103 SOUT 34 D
12
S PB AUD34
BUF
DELAY
ENC
102 AES D
7
D OUT DATA12 P
194 PBSDICLK
PB DAUDCK
SYNC
GEN
MCK1
196
BCK1
197
WCK1

F5:VIDEO IN BLOCK DIAGRAM (1/2)



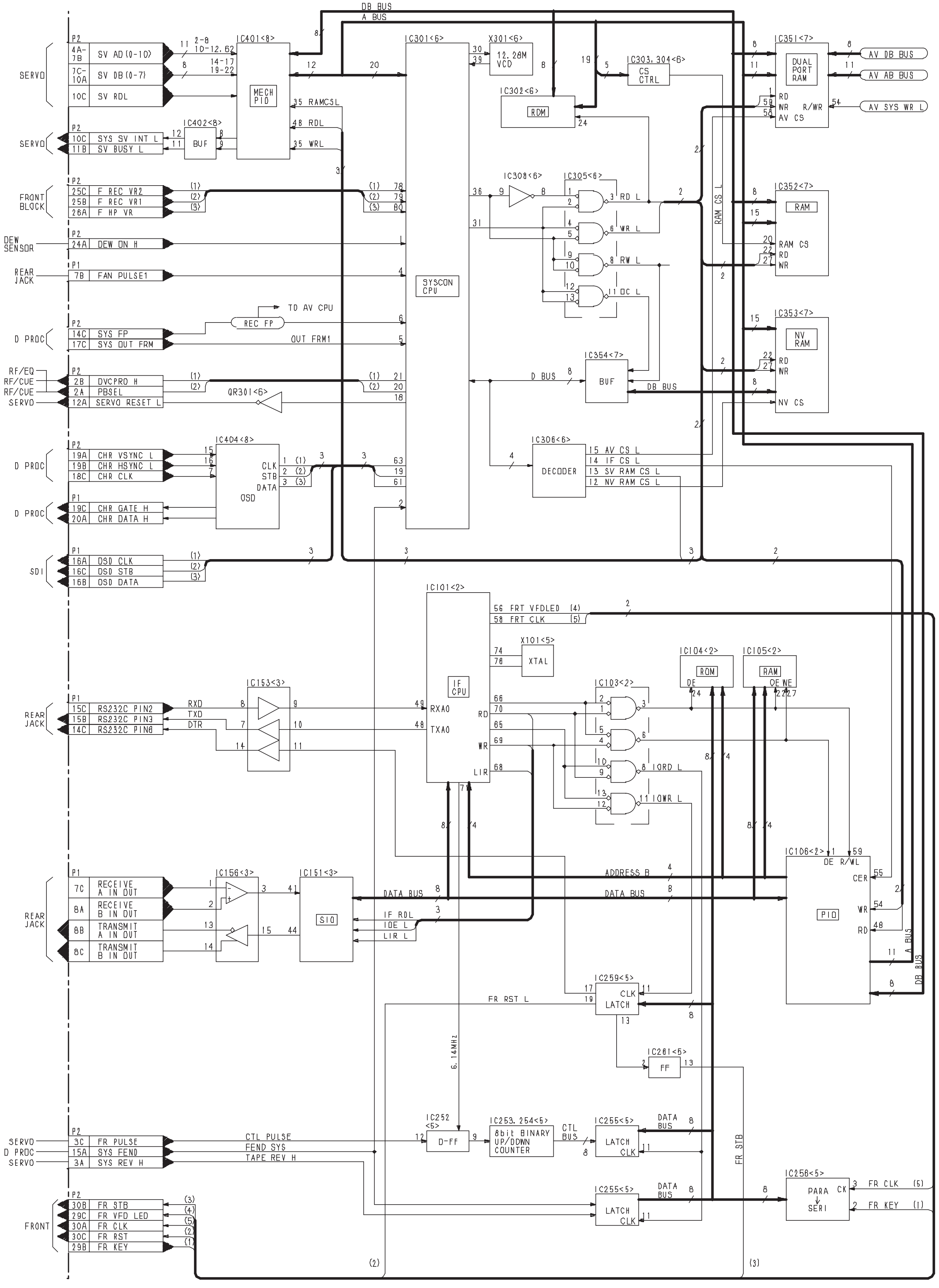
P11 P3001
SYSCON 18C 27C
P21 P3001
REAR
18C 12B Y IN
18B 13B PB IN
18A 14B PR IN
Q3600
Q3601
Q3602
Q3603
Q3604
Q3604
EVR
M2 L
IST AD
TP3160
P21 P3001
REAR 16C 7B VIDEO IN
Q3100
FL3101<3>
LPF
Q3101
IC3102<3>
VGA
3
6
5
V IN
IC3160
Q3160-3166<4>
CLAMP
IC3162<4>
AD
8
IC3163<4>
BUFFER
8
IC3201<5>
YC SEP DECODER
Y
C
27
80
ADCK
BVCO
Q3300
BUFFER
IC3300<7>
Q3306
BUFFER
IC3301<7>
IC3250<6>
YC SEP DECODER
8
Y
C
80
ADCK
TP3450
IC3450<9>
DEMOD
PB
IC3451<9>
DEMOD
PR
P11 P3001
SYSCON 18C 27C EVR DATA
IC3900<16>
DECODER
1
13
27
EVR
IC3103
IC3104<3>
PULSE GEN
RET Y
P11 P3001
SYSCON
18C 27B EVR CLK
19A 28A EVR VIN LD H
IC3100
SYNC SEP
C SYNC
IC3557
Q3305
Q3314. 3315
BUFFER
P21 P3001
REAR 4P-YIN 17C 9B SY IN
Q3311
BUFFER
P21 P3001
REAR 4P-YIN 17A 10B SC IN
IC3403
AMP
IC3406
S/H
X3401
VCO 4FSC
BVCO(4FSC)
Q3550-3554
IC3550<11>
BUFFER LATCH
IC3552<11>
HDNC
IC3411<8>
6
HD
8, 9
AXSV
AXSU
IC3551, Q3554
DL3500, VC3500
VCO 13.5M
35
CKI
LALT
15
VR3550
SYNC 0
SYNC GEN
APC SIG
BGP
TP3400
TP3401
APC DET
APC DET
IC3403
IC3405<8>
1
BGP
IC3502<10>
RET Y
1
SYNC SEP
11
COMPOSITE SYNC
COMP SYNC
22
C SYNC
IC3501<10>
GATE ARRAY NOT USED (DVCPRO50 ONLY)
IN SYNC
5
VLKL
IN FRM
P3002
1 VCC
2 TDO
3 TDI
4 TRST
5 NC
6 TMS
7 GND
8 TCK
OPEN
IC3930<17>
CPLD

F5:VIDEO IN BLOCK DIAGRAM (2/2)

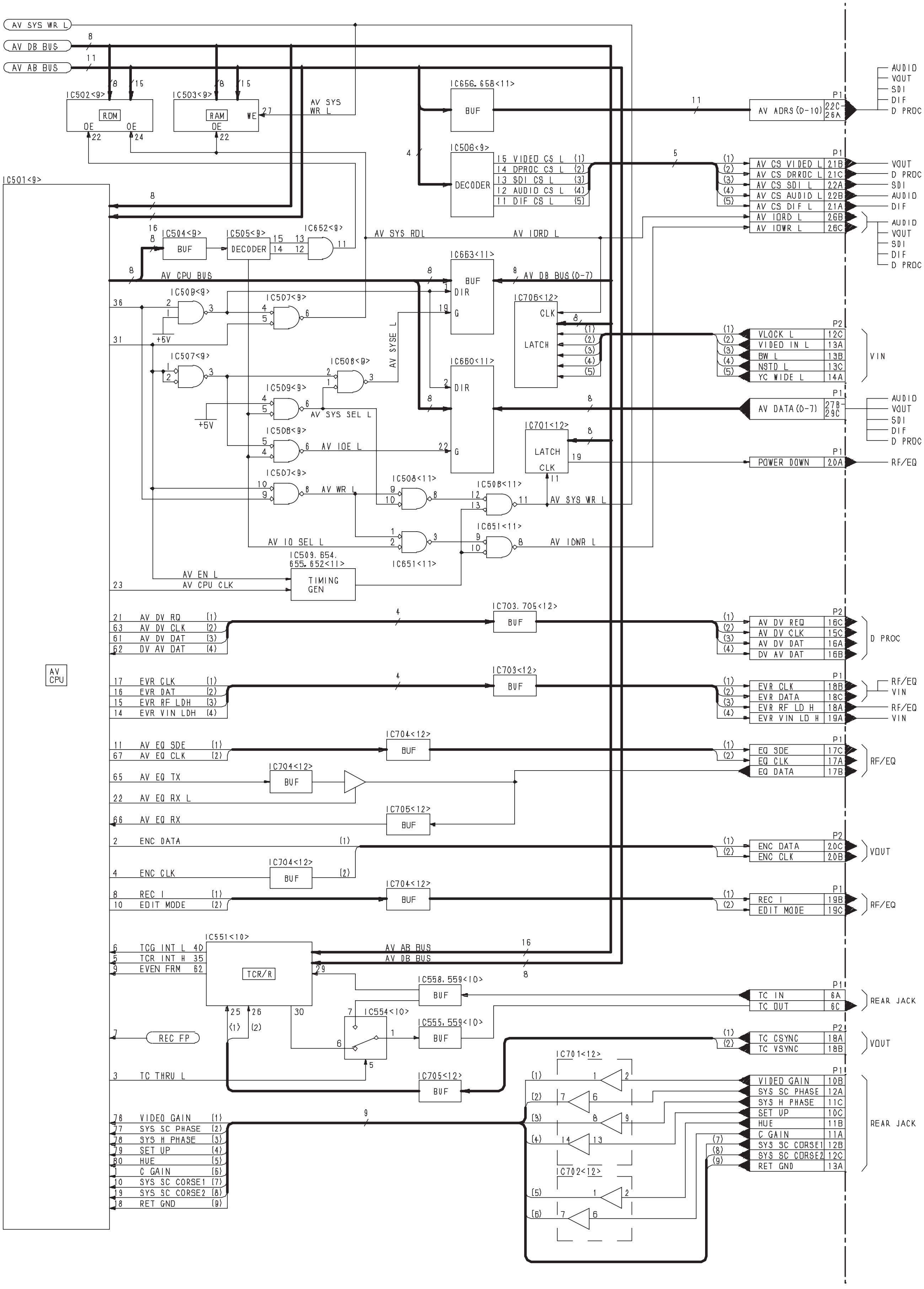


EVR
IC3633
Y OFSET
IC3900<16>
EVR DATA
EVR DECODER
TP3630
IC3632<13>
Q3630
FL3631
LPF
IC3633
CLAMP
IC3631
AD
10
IC3930<17>
38
IC3932<17>
IC3400<8>
MMV
RSTH SITE
VR3401
IC3400<8>
MMV
SCH SITE
VR3402
IC3401<8>
MMV
RSTH YC
VR3403
IC3401<8>
MMV
SCH YC
VR3404
IC3702<14>
Q3700
FL3701
LPF
IC3703
Q3704, 3705
CLAMP
TP3700
IC3701
AD
10
160-163
IC3802<15>
Q3800
FL3801
LPF
IC3803
Q3800, 3801
CLAMP
TP3800
IC3801
AD
10
IC3980<18>
TP3980
TP3981
15
13
14
57
P3001
D
SDI PROC P3
P5
P7
INCOM HD 22B 18C 22B
INCOM CF 21C 18A 21C 21C
INCOM FRM 22A 18B 22A
SYNC HD 23A 23A P7
V OUT
DIG GEN
QR3300
BUFFER
IC3980<18>
120
P3001
35
33
34
36
INCOME CLK27 24B 24B P7
VIDEO IN L 28C 13A P7
BW L 29A 13B P7
NSTD H 29B 13C P12 SYSCON
V LOCK L 28B
D PROC
P3001
29
38
41
40
AV RST L 27A 27A P11 SYSCON
V BLK BW2 23B 23B P7 D PROC
EVR DATA 27C 18C P11
EVR CLK 27B 18B P11
SYSCON
IC3981
3-12
8
BUFFER
P3001 P5 P7
REC YC (0-7) 19A 21B 19A 21B 19A 21B
SYSCON
P3001 P12
YC WIDE L 29C 14A
SYSCON

F6:SYSCON BLOCK DIAGRAM (1/2)

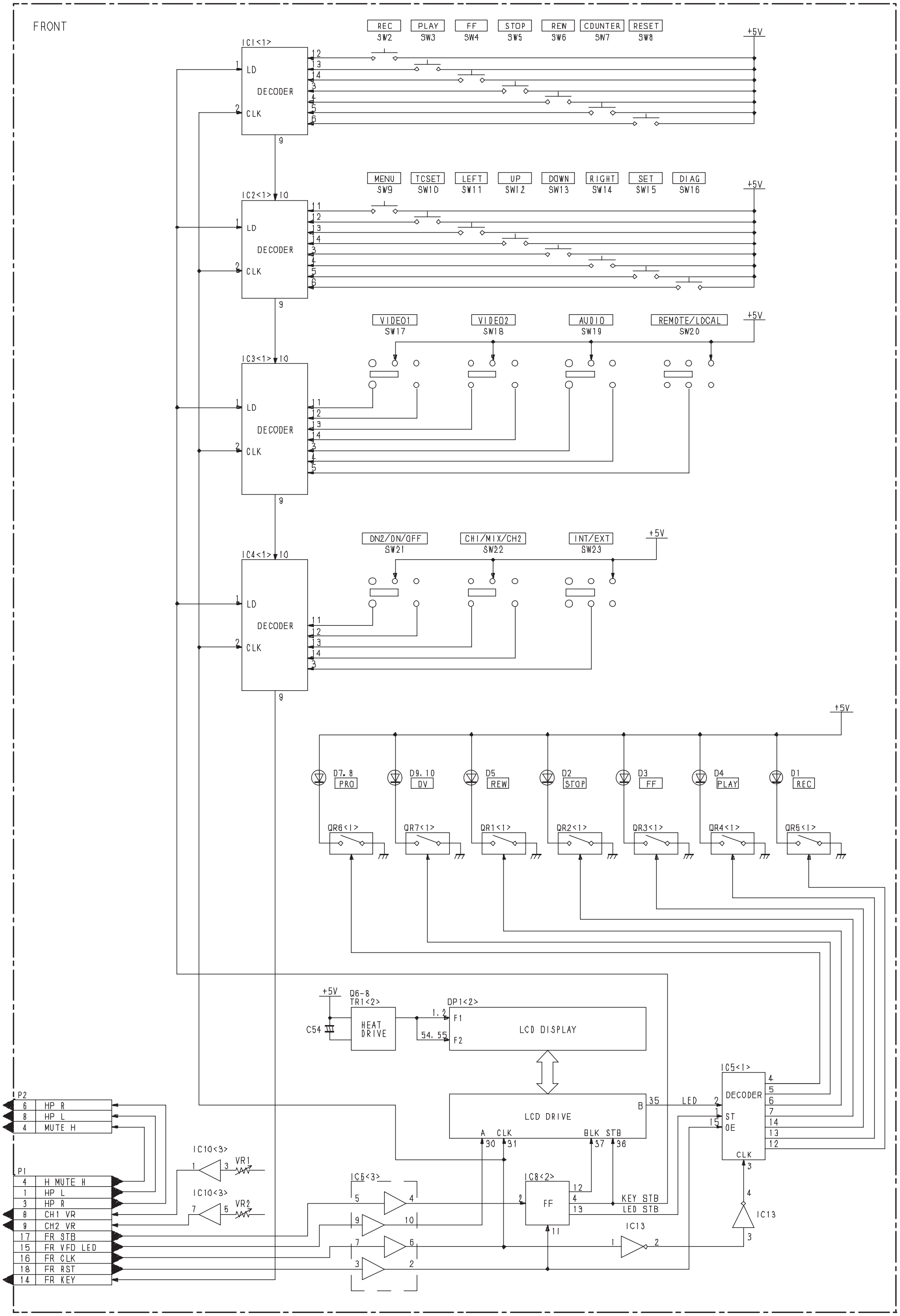

DB BUS
A BUS
SERVO
P2
4A-7B SV AD(0-10)
7C-10A SV DB(0-7)
10C SV RDL
IC401<8>
MECH PIO
35 RAMCSL
48 RDL
35 WRL
IC402<8>
BUF
10C SYS SV INT L
11B SV BUSY L
IC301<6>
SYSCON CPU
X301<6>
12.28M VCO
IC303,304<6>
CS CTRL
IC302<6>
ROM
IC351<7>
DUAL PORT RAM
RD
WR
AV CS
R/WR
AV DB BUS
AV AB BUS
AV SYS WR L
FRONT BLOCK
25C F REC VR2
25B F REC VR1
26A F HP VR
DEW SENSOR
24A DEW ON H
REAR JACK
7B FAN PULSE1
IC308<6>
IC305<6>
RD L
WR L
RW L
OC L
RAM CS L
IC352<7>
RAM
RAM CS
IC353<7>
NV RAM
NV CS
TO AV CPU
REC FP
D PROC
14C SYS FP
17C SYS OUT FRM
OUT FRM1
RF/EQ
RF/CUE
RF/CUE
SERVO
2B DVCPRO H
2A PBSEL
12A SERVO RESET L
QR301<6>
IC354<7>
BUF
D BUS
DB BUS
IC404<8>
OSD
CLK
STB
DATA
19A CHR VSYNC L
19B CHR HSYNC L
18C CHR CLK
19C CHR GATE H
20A CHR DATA H
IC306<6>
DECODER
15 AV CS L
14 IF CS L
13 SV RAM CS L
12 NV RAM CS L
SDI
16A OSD CLK
16C OSD STB
16B OSD DATA
IC101<2>
IF CPU
56 FRT VFDLED
58 FRT CLK
X101<5>
XTAL
RXA0
TXA0
RD
WR
LIR
IC104<2>
ROM
OE
IC105<2>
RAM
OE WE
IC103<2>
IORD L
IOWR L
IC153<3>
15C RS232C PIN2
15B RS232C PIN3
14C RS232C PIN6
RXD
TXD
DTR
IC106<2>
PIO
DE R/WL
CER
WR
RD
ADDRESS B
DATA BUS
A BUS
DB BUS
IC156<3>
IC151<3>
SIO
7C RECEIVE A IN OUT
8A RECEIVE B IN OUT
8B TRANSMIT A IN OUT
8C TRANSMIT B IN OUT
IF RDL
IOE L
LIR L
IC259<5>
CLK
LATCH
FR RST L
IC261<5>
FF
6.14MHz
FR STB
IC252<5>
D-FF
IC253,254<5>
8bit BINARY UP/DOWN COUNTER
CTL BUS
IC255<5>
LATCH
CLK
DATA BUS
CTL PULSE
FEND SYS
TAPE REV H
3C FR PULSE
15A SYS FEND
3A SYS REV H
IC256<5>
PARA SERI
FR CLK
FR KEY
FRONT
30B FR STB
29C FR VFD LED
30A FR CLK
30C FR RST
29B FR KEY

F6:SYSCON BLOCK DIAGRAM (2/2)

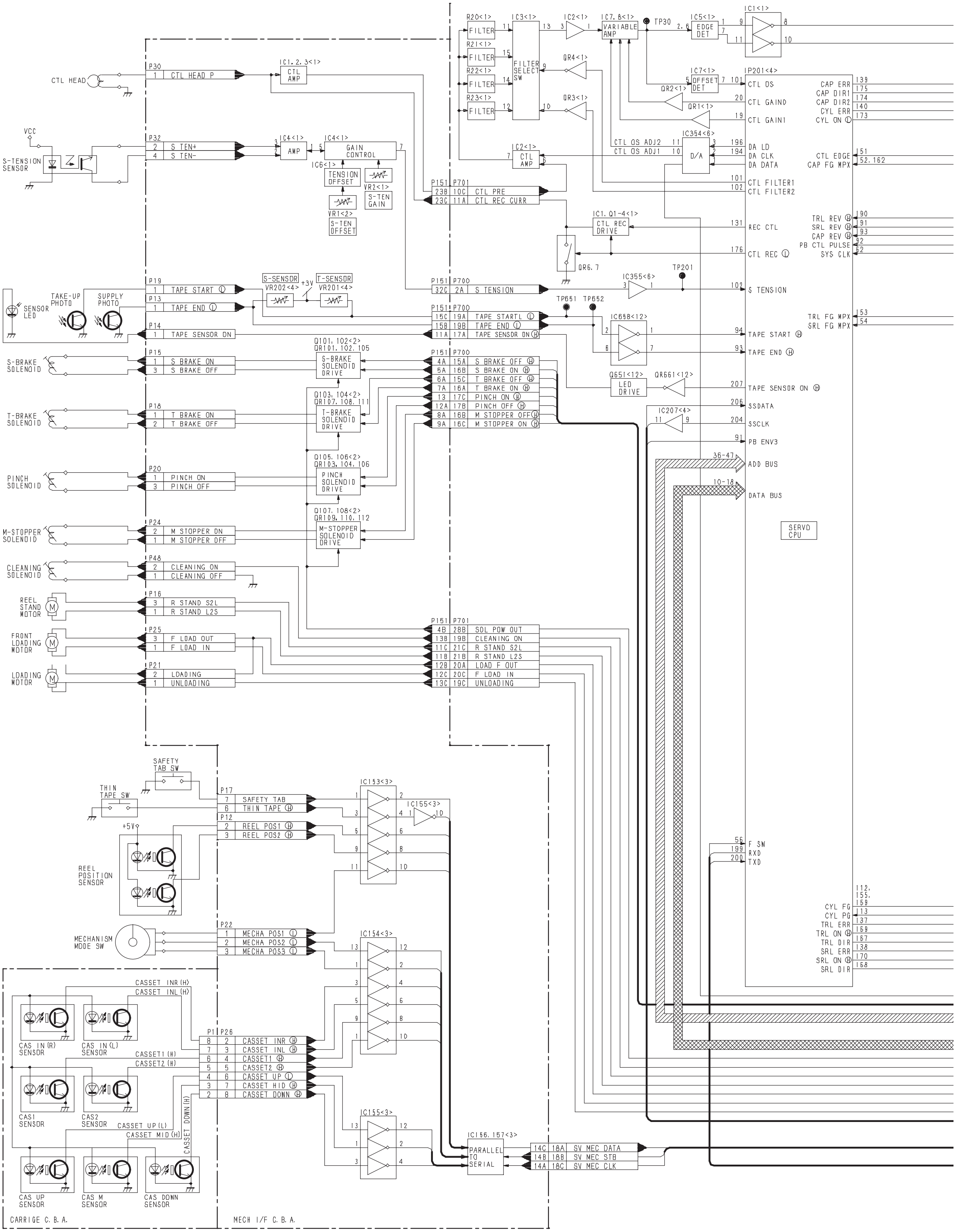


AV SYS WR L
AV DB BUS
AV AB BUS
IC502<9>
ROM
OE
IC503<9>
RAM
WE
AV SYS WR L
IC656, 658<11>
BUF
AV ADRS(0-10)
22C
26A
AUDIO
VOUT
SDI
DIF
D PROC
IC506<9>
DECODER
15 VIDEO CS L (1)
14 DPROC CS L (2)
13 SDI CS L (3)
12 AUDIO CS L (4)
11 DIF CS L (5)
AV CS VIDEO L 21B
AV CS DPROC L 21C
AV CS SDI L 22A
AV CS AUDIO L 22B
AV CS DIF L 21A
AV IORD L 26B
AV IOWR L 26C
IC501<9>
IC504<9>
BUF
IC505<9>
DECODER
IC652<9>
AV SYS RDL
AV IORD L
IC663<11>
BUF
DIR
G
AV DB BUS(0-7)
AV CPU BUS
IC508<9>
IC507<9>
+5V
IC706<12>
CLK
LATCH
VLOCK L 12C
VIDEO IN L 13A
BW L 13B
NSTD L 13C
YC WIDE L 14A
VIN
AV SYSE L
IC660<11>
IC509<9>
AV SYS SEL L
AV DATA(0-7)
27B
29C
IC701<12>
LATCH
CLK
POWER DOWN 20A
RF/EQ
AV IOE L
IC507<9>
AV WR L
IC508<11>
IC508<11>
AV SYS WR L
IC651<11>
AV IOWR L
AV IO SEL L
IC509, 654, 655, 652<11>
TIMING GEN
IC651<11>
AV EN L
AV CPU CLK
21 AV DV RQ (1)
63 AV DV CLK (2)
61 AV DV DAT (3)
62 DV AV DAT (4)
IC703, 705<12>
BUF
AV DV REQ 16C
AV DV CLK 15C
AV DV DAT 16A
DV AV DAT 16B
D PROC
AV CPU
17 EVR CLK (1)
16 EVR DAT (2)
15 EVR RF LDH (3)
14 EVR VIN LDH (4)
IC703<12>
BUF
EVR CLK 18B
EVR DATA 18C
EVR RF LD H 18A
EVR VIN LD H 19A
RF/EQ
VIN
11 AV EQ SDE (1)
67 AV EQ CLK (2)
IC704<12>
BUF
EQ SDE 17C
EQ CLK 17A
EQ DATA 17B
RF/EQ
65 AV EQ TX
IC704<12>
BUF
22 AV EQ RX L
66 AV EQ RX
IC705<12>
BUF
2 ENC DATA (1)
4 ENC CLK
IC704<12>
BUF
(2)
ENC DATA 20C
ENC CLK 20B
VOUT
8 REC I (1)
10 EDIT MODE (2)
IC704<12>
BUF
REC I 19B
EDIT MODE 19C
RF/EQ
IC551<10>
6 TCG INT L 40
5 TCR INT H 35
9 EVEN FRM 62
TCR/R
AV AB BUS
AV DB BUS
IC558, 559<10>
BUF
TC IN 6A
TC OUT 6C
REAR JACK
IC554<10>
IC555, 559<10>
BUF
7 REC FP
TC CSYNC 18A
TC VSYNC 18B
VOUT
3 TC THRU L
IC705<12>
BUF
IC701<12>
IC702<12>
78 VIDEO GAIN (1)
77 SYS SC PHASE (2)
76 SYS H PHASE (3)
79 SET UP (4)
80 HUE (5)
1 C GAIN (6)
10 SYS SC CORSE1 (7)
19 SYS SC CORSE2 (8)
18 RET GND (9)
VIDEO GAIN 10B
SYS SC PHASE 12A
SYS H PHASE 11C
SET UP 10C
HUE 11B
C GAIN 11A
SYS SC CORSE1 12B
SYS SC CORSE2 12C
RET GND 13A
REAR JACK
P1
P2

FRONT BLOCK DIAGRAM

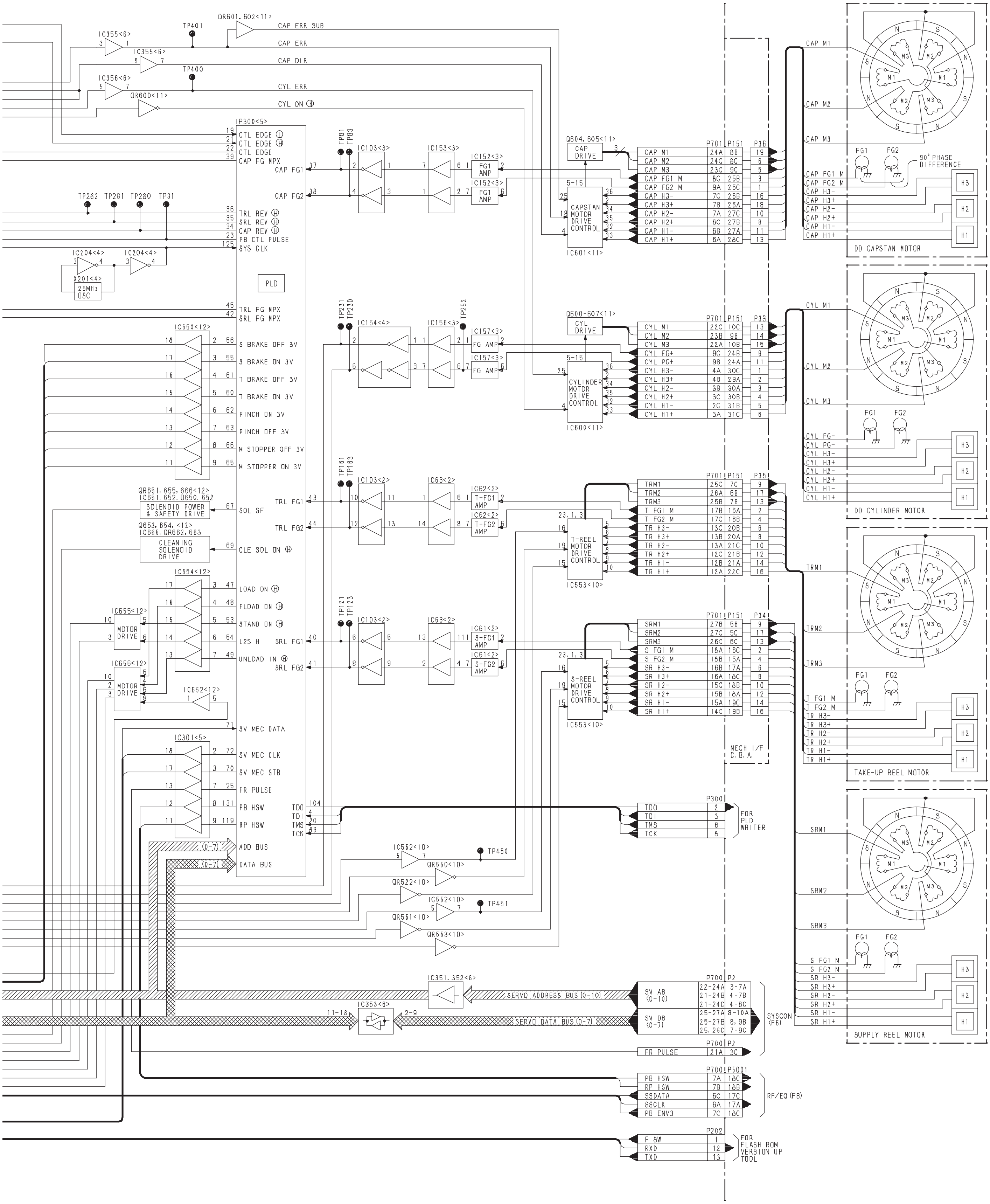

FRONT
REC SW2
PLAY SW3
FF SW4
STOP SW5
REW SW6
COUNTER SW7
RESET SW8
+5V
IC1<1>
LD
DECODER
CLK
MENU SW9
TCSET SW10
LEFT SW11
UP SW12
DOWN SW13
RIGHT SW14
SET SW15
DIAG SW16
IC2<1>
VIDEO1 SW17
VIDEO2 SW18
AUDIO SW19
REMOTE/LOCAL SW20
IC3<1>
DN2/DN/OFF SW21
CH1/MIX/CH2 SW22
INT/EXT SW23
IC4<1>
D7, 8 PRO
D9, 10 DV
D5 REW
D2 STOP
D3 FF
D4 PLAY
D1 REC
QR6<1>
QR7<1>
QR1<1>
QR2<1>
QR3<1>
QR4<1>
QR5<1>
Q6-8 TR1<2>
C54
HEAT DRIVE
DP1<2>
F1
F2
LCD DISPLAY
LCD DRIVE
A CLK
BLK STB
B
LED
IC5<1>
DECODER
ST
OE
CLK
IC13
IC8<2>
FF
KEY STB
LED STB
IC6<3>
IC10<3>
VR1
VR2
P2
HEAD PHONE
6 HP R
8 HP L
4 MUTE H
P1
AUDIO
4 H MUTE H
1 HP L
3 HP R
SYSCON BLOCK (1/2)
8 CH1 VR
9 CH2 VR
SYSCON (1/2)
17 FR STB
15 FR VFD LED
16 FR CLK
18 FR RST
14 FR KEY

F7:SERVO BLOCK DIAGRAM (1/2)



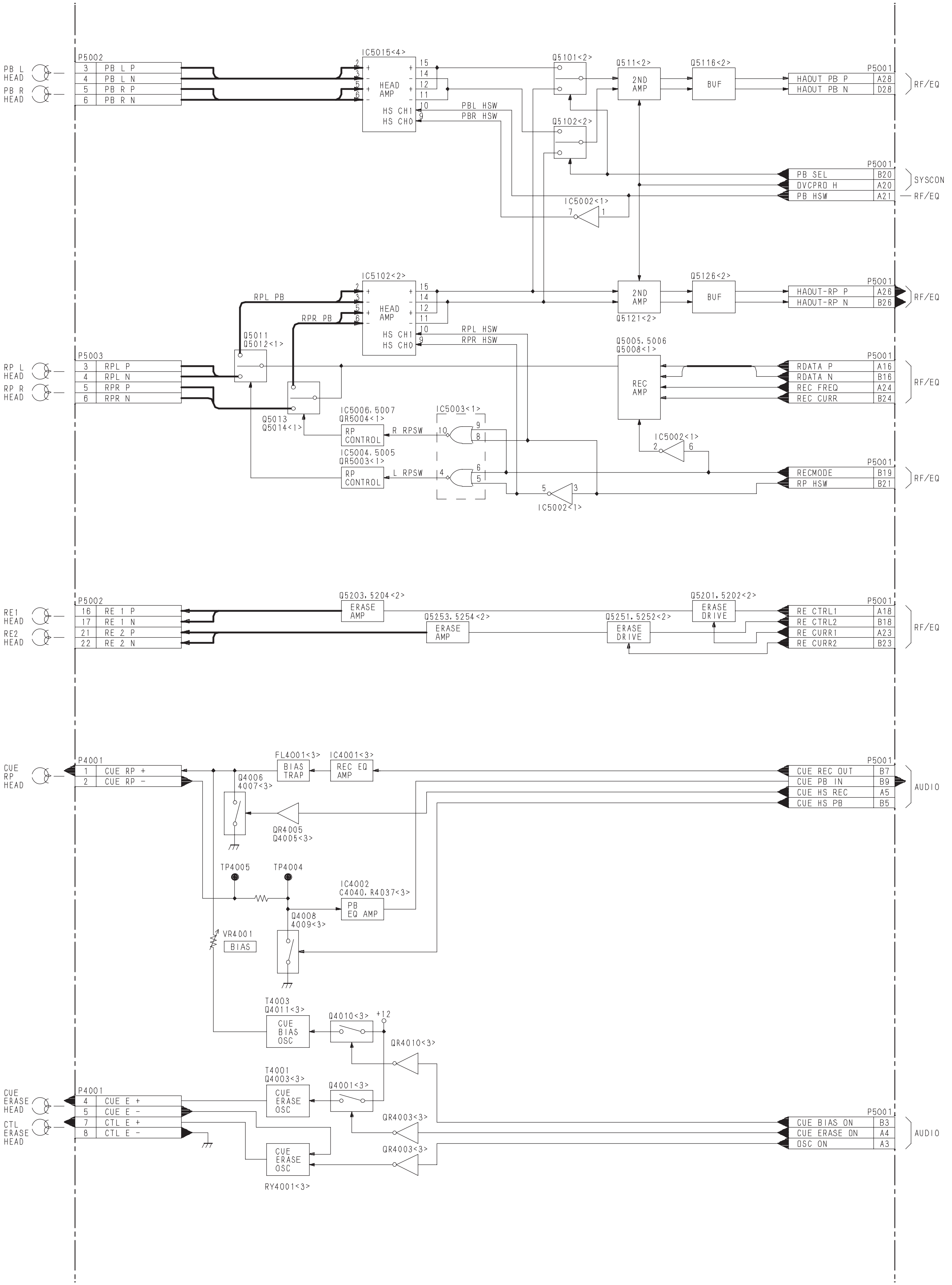
R20<1>
FILTER
R21<1>
FILTER
R22<1>
FILTER
R23<1>
FILTER
IC3<1>
FILTER SELECT SW
IC2<1>
IC7,8<1>
VARIABLE AMP
TP30
IC5<1>
EDGE DET
IC1<1>
QR4<1>
QR3<1>
IC7<1>
OFFSET DET
QR2<1>
QR1<1>
IP201<4>
CTL DS
CTL GAIN0
CTL GAIN1
CAP ERR
CAP DIR1
CAP DIR2
CYL ERR
CYL ON
CTL HEAD
P30
CTL HEAD P
IC1,2,3<1>
CTL AMP
VCC
S-TENSION SENSOR
P32
S TEN+
S TEN-
IC4<1>
AMP
IC4<1>
GAIN CONTROL
IC6<1>
TENSION OFFSET
VR2<1>
S-TEN GAIN
VR1<2>
S-TEN OFFSET
IC2<1>
CTL AMP
CTL OS ADJ2
CTL OS ADJ1
IC354<6>
D/A
DA LD
DA CLK
DA DATA
CTL EDGE
CAP FG MPX
CTL FILTER1
CTL FILTER2
P151
P701
CTL PRE
CTL REC CURR
IC1,Q1-4<1>
CTL REC DRIVE
REC CTL
TRL REV
SRL REV
CAP REV
PB CTL PULSE
SYS CLK
QR6,7
CTL REC
TP201
S-SENSOR
T-SENSOR
+3V
VR202<4>
VR201<4>
P19
TAPE START
P13
TAPE END
P14
TAPE SENSOR ON
SENSOR LED
TAKE-UP PHOTO
SUPPLY PHOTO
IC355<6>
S TENSION
P700
TP651
TP652
IC658<12>
TAPE STARTL
TAPE END
TRL FG MPX
SRL FG MPX
S-BRAKE SOLENOID
P15
S BRAKE ON
S BRAKE OFF
Q101,102<2>
QR101,102,105
S-BRAKE SOLENOID DRIVE
S BRAKE OFF
S BRAKE ON
T BRAKE OFF
T BRAKE ON
PINCH ON
PINCH OFF
M STOPPER OFF
M STOPPER ON
Q651<12>
QR661<12>
LED DRIVE
TAPE SENSOR ON
SSDATA
IC207<4>
SSCLK
PB ENV3
T-BRAKE SOLENOID
P18
T BRAKE ON
T BRAKE OFF
Q103,104<2>
QR107,108,111
T-BRAKE SOLENOID DRIVE
ADD BUS
DATA BUS
PINCH SOLENOID
P20
PINCH ON
PINCH OFF
Q105,106<2>
QR103,104,106
PINCH SOLENOID DRIVE
SERVO CPU
M-STOPPER SOLENOID
P24
M STOPPER ON
M STOPPER OFF
Q107,108<2>
QR109,110,112
M-STOPPER SOLENOID DRIVE
CLEANING SOLENOID
P48
CLEANING ON
CLEANING OFF
REEL STAND MOTOR
P16
R STAND S2L
R STAND L2S
FRONT LOADING MOTOR
P25
F LOAD OUT
F LOAD IN
LOADING MOTOR
P21
LOADING
UNLOADING
SOL POW OUT
CLEANING ON
R STAND S2L
R STAND L2S
LOAD F OUT
F LOAD IN
UNLOADING
SAFETY TAB SW
THIN TAPE SW
P17
SAFETY TAB
THIN TAPE
P12
REEL POS1
REEL POS2
+5V
REEL POSITION SENSOR
IC153<3>
IC155<3>
F SW
RXD
TXD
CYL FG
CYL PG
TRL ERR
TRL ON
TRL DIR
SRL ERR
SRL ON
SRL DIR
MECHANISM MODE SW
P22
MECHA POS1
MECHA POS2
MECHA POS3
IC154<3>
CASSET INR (H)
CASSET INL (H)
CAS IN (R) SENSOR
CAS IN (L) SENSOR
CASSET1 (H)
CASSET2 (H)
P1
P26
CASSET INR
CASSET INL
CASSET1
CASSET2
CASSET UP
CASSET MID
CASSET DOWN
CAS1 SENSOR
CAS2 SENSOR
CASSET UP (L)
CASSET MID (H)
CASSET DOWN (H)
IC155<3>
IC156,157<3>
PARALLEL TO SERIAL
SV MEC DATA
SV MEC STB
SV MEC CLK
CAS UP SENSOR
CAS M SENSOR
CAS DOWN SENSOR
CARRIGE C.B.A.
MECH I/F C.B.A.

F7:SERVO BLOCK DIAGRAM (2/2)



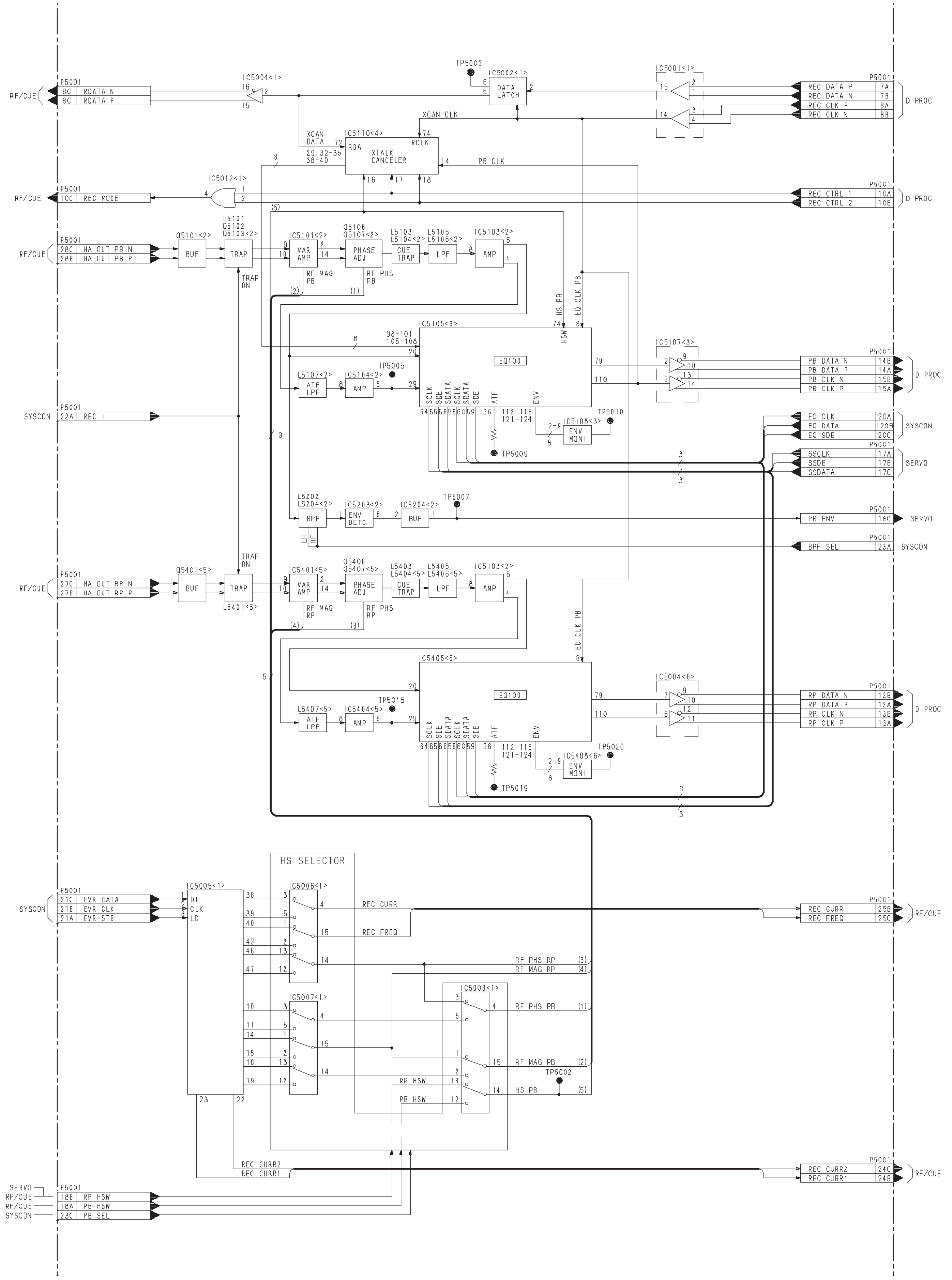
QR601, 602<11>
IC355<6>
TP401
TP400
IC356<6>
QR600<11>
CAP ERR SUB
CAP ERR
CAP DIR
CYL ERR
CYL ON
IP300<5>
CTL EDGE
CAP FG MPX
CAP FG1
CAP FG2
TP282 TP281 TP280 TP31
TRL REV
SRL REV
CAP REV
PB CTL PULSE
SYS CLK
IC204<4>
X201<4>
25MHz OSC
PLD
TRL FG MPX
SRL FG MPX
IC650<12>
S BRAKE OFF 3V
S BRAKE ON 3V
T BRAKE OFF 3V
T BRAKE ON 3V
PINCH ON 3V
PINCH OFF 3V
M STOPPER OFF 3V
M STOPPER ON 3V
QR651, 655, 666<12>
IC651, 652, Q650, 652
SOLENOID POWER & SAFETY DRIVE
SOL SF
Q653, 654, <12>
IC665, QR662, 663
CLEANING SOLENOID DRIVE
CLE SDL ON
IC654<12>
LOAD ON
FLOAD ON
STAND ON
L2S H
UNLOAD IN
IC655<12>
MOTOR DRIVE
IC656<12>
IC652<12>
SV MEC DATA
IC301<5>
SV MEC CLK
SV MEC STB
FR PULSE
PB HSW
RP HSW
TDO TDI TMS TCK
ADD BUS
DATA BUS
IC103<3>
IC153<3>
IC152<3>
FG1 AMP
TP81 TP83
Q604, 605<11>
CAP DRIVE
CAPSTAN MOTOR DRIVE CONTROL
IC601<11>
IC154<4>
IC156<3>
IC157<3>
FG AMP
TP231 TP230 TP252
Q600-607<11>
CYL DRIVE
CYLINDER MOTOR DRIVE CONTROL
IC600<11>
TP161 TP163
IC103<2>
IC63<2>
IC62<2>
T-FG1 AMP
T-FG2 AMP
TRL FG1
TRL FG2
T-REEL MOTOR DRIVE CONTROL
IC553<10>
TP121 TP123
IC61<2>
S-FG1 AMP
S-FG2 AMP
SRL FG1
SRL FG2
S-REEL MOTOR DRIVE CONTROL
IC552<10>
TP450
QR550<10>
QR522<10>
TP451
QR551<10>
QR553<10>
IC351, 352<6>
SERVO ADDRESS BUS [0-10]
IC353<6>
SERVO DATA BUS [0-7]
SV AB (0-10)
SV DB (0-7)
SYSCON (F6)
P700 P2
P700 P5001
RF/EQ (F8)
SSDATA
SSCLK
PB ENV3
P202
F SW
RXD
TXD
FOR FLASH ROM VERSION UP TOOL
P300
FOR PLD WRITER
P701 P151 P36
CAP M1 CAP M2 CAP M3
CAP FG1 M
CAP FG2 M
CAP H3- CAP H3+ CAP H2- CAP H2+ CAP H1- CAP H1+
FG1 FG2
90° PHASE DIFFERENCE
H3 H2 H1
DD CAPSTAN MOTOR
P701 P151 P33
CYL M1 CYL M2 CYL M3
CYL FG+ CYL PG+ CYL FG- CYL PG-
CYL H3- CYL H3+ CYL H2- CYL H2+ CYL H1- CYL H1+
DD CYLINDER MOTOR
P701 P151 P35
TRM1 TRM2 TRM3
T FG1 M
T FG2 M
TR H3- TR H3+ TR H2- TR H2+ TR H1- TR H1+
TAKE-UP REEL MOTOR
P701 P151 P34
SRM1 SRM2 SRM3
S FG1 M
S FG2 M
SR H3- SR H3+ SR H2- SR H2+ SR H1- SR H1+
SUPPLY REEL MOTOR
MECH I/F C.B.A.
M1 M2 M3
N S

RF CUE BLOCK DIAGRAM



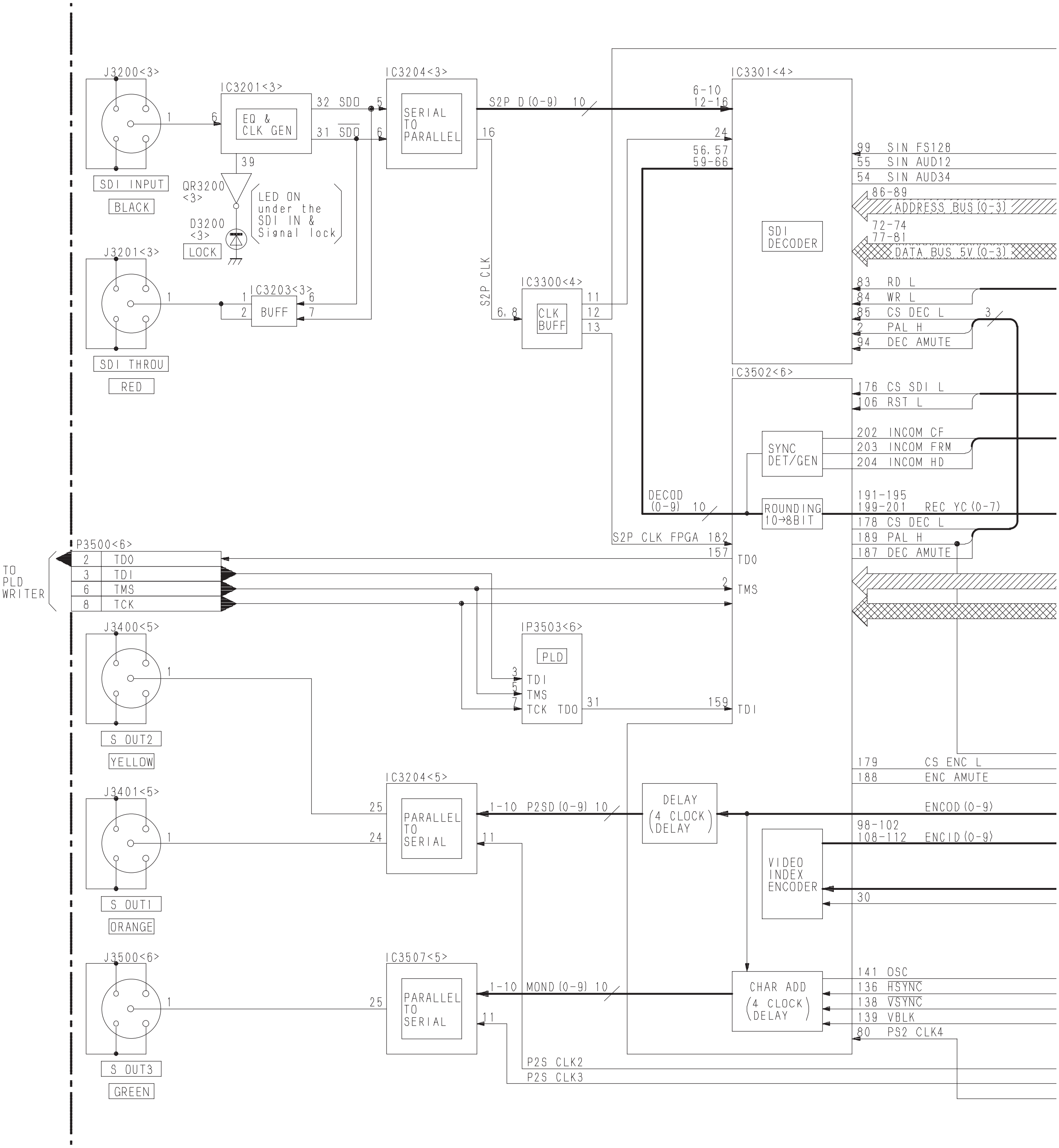
PB L HEAD
PB R HEAD
P5002
3 PB L P
4 PB L N
5 PB R P
6 PB R N
IC5015<4>
HEAD AMP
HS CH1
HS CH0
PBL HSW
PBR HSW
Q5101<2>
Q5102<2>
Q511<2>
2ND AMP
Q5116<2>
BUF
P5001
HAOUT PB P A28
HAOUT PB N D28
RF/EQ
PB SEL B20
DVCPRO H A20
PB HSW A21
SYSCON
RF/EQ
IC5002<1>
IC5102<2>
RPL PB
RPR PB
RPL HSW
RPR HSW
Q5126<2>
Q5121<2>
HAOUT-RP P A26
HAOUT-RP N B26
RF/EQ
RP L HEAD
RP R HEAD
P5003
3 RPL P
4 RPL N
5 RPR P
6 RPR N
Q5011
Q5012<1>
Q5013
Q5014<1>
Q5005, 5006
Q5008<1>
REC AMP
RDATA P A16
RDATA N B16
REC FREQ A24
REC CURR B24
RF/EQ
IC5006, 5007
QR5004<1>
RP CONTROL
R RPSW
IC5004, 5005
QR5003<1>
RP CONTROL
L RPSW
IC5003<1>
IC5002<1>
RECMODE B19
RP HSW B21
RF/EQ
IC5002<1>
RE1 HEAD
RE2 HEAD
P5002
16 RE 1 P
17 RE 1 N
21 RE 2 P
22 RE 2 N
Q5203, 5204<2>
ERASE AMP
Q5253, 5254<2>
ERASE AMP
Q5251, 5252<2>
ERASE DRIVE
Q5201, 5202<2>
ERASE DRIVE
RE CTRL1 A18
RE CTRL2 B18
RE CURR1 A23
RE CURR2 B23
RF/EQ
CUE RP HEAD
P4001
1 CUE RP +
2 CUE RP −
FL4001<3>
BIAS TRAP
IC4001<3>
REC EQ AMP
Q4006
4007<3>
QR4005
Q4005<3>
CUE REC OUT B7
CUE PB IN B9
CUE HS REC A5
CUE HS PB B5
AUDIO
TP4005
TP4004
IC4002
C4040, R4037<3>
PB EQ AMP
Q4008
4009<3>
VR4001
BIAS
T4003
Q4011<3>
CUE BIAS OSC
Q4010<3>
+12
QR4010<3>
T4001
Q4003<3>
CUE ERASE OSC
Q4001<3>
QR4003<3>
QR4003<3>
CUE ERASE OSC
RY4001<3>
CUE ERASE HEAD
CTL ERASE HEAD
P4001
4 CUE E +
5 CUE E −
7 CTL E +
8 CTL E −
CUE BIAS ON B3
CUE ERASE ON A4
OSC ON A3
AUDIO

F8:RF/EQ BLOCK DIAGRAM



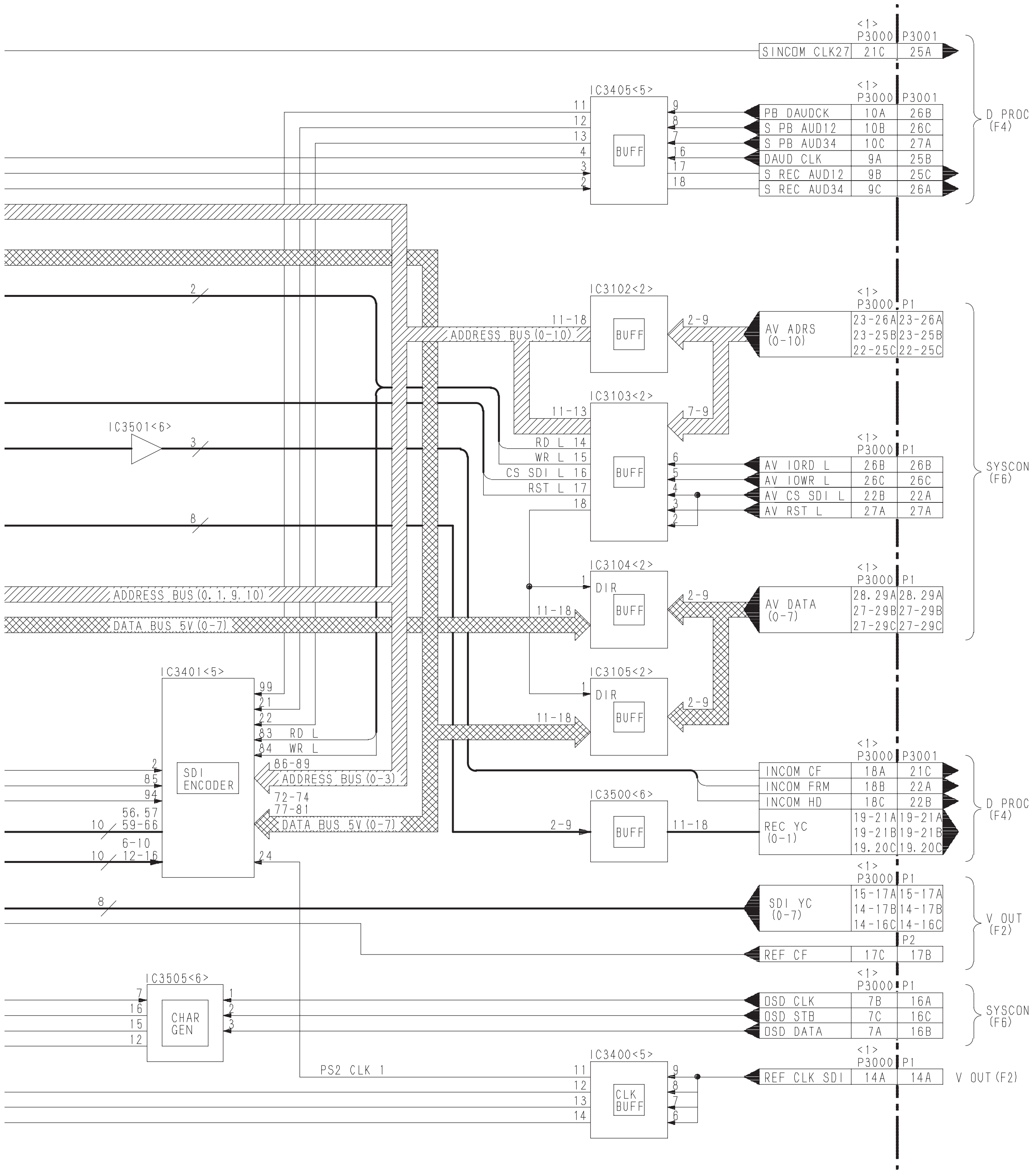
TP5003
IC5002<1>
DATA LATCH
IC5001<1>
IC5004<1>
P5001
8C RDATA N
8C RDATA P
RF/CUE
REC DATA P 7A
REC DATA N 7B
REC CLK P 8A
REC CLK N 8B
D PROC
XCAN CLK
XCAN DATA
IC5110<4>
RDA
RCLK
XTALK CANCELER
29,32-35 38-40
PB CLK
IC5012<1>
10C REC MODE
REC CTRL 1 10A
REC CTRL 2 10B
L5101 Q5102 Q5103<2>
Q5101<2>
IC5101<2>
Q5106 Q5107<2>
L5103 L5104<2>
L5105 L5106<2>
IC5103<2>
28C HA OUT PB N
28B HA OUT PB P
BUF
TRAP
VAR AMP
PHASE ADJ
CUE TRAP
LPF
AMP
TRAP ON
RF MAG PB
RF PHS PB
HS PB
EQ CLK PB
IC5105<3>
98-101 105-108
HSW
EQ100
IC5107<3>
PB DATA N 14B
PB DATA P 14A
PB CLK N 15B
PB CLK P 15A
L5107<2>
IC5104<2>
TP5005
ATF LPF
SCLK SDE SDATA SCLK SDATA SDE ATF ENV
112-115 121-124
IC5108<3>
ENV MONI
TP5010
TP5009
SYSCON
22A REC I
EQ CLK 20A
EQ DATA 20B
EQ SDE 20C
SSCLK 17A
SSDE 17B
SSDATA 17C
SERVO
L5202 L5204<2>
IC5203<2>
IC5204<2>
TP5007
BPF
ENV DETC.
PB ENV 18C
BPF SEL 23A
LH HF
Q5401<5>
IC5401<5>
Q5406 Q5407<5>
L5403 L5404<5>
L5405 L5406<5>
27C HA OUT RP N
27B HA OUT RP P
L5401<5>
RF MAG RP
RF PHS RP
IC5405<6>
IC5004<6>
RP DATA N 12B
RP DATA P 12A
RP CLK N 13B
RP CLK P 13A
L5407<5>
IC5404<5>
TP5015
IC5408<6>
TP5020
TP5019
HS SELECTOR
IC5005<1>
IC5006<1>
21C EVR DATA
21B EVR CLK
21A EVR STB
DI CLK LD
REC CURR
REC FREQ
REC CURR 25B
REC FREQ 25C
IC5007<1>
IC5008<1>
RF PHS PB
RF MAG PB
RP HSW
PB HSW
HS PB
TP5002
REC CURR2
REC CURR1
REC CURR2 24C
REC CURR1 24B
18B RP HSW
18A PB HSW
23C PB SEL

F3A:SDI BLOCK DIAGRAM (1/2) (AJ-YA455P)



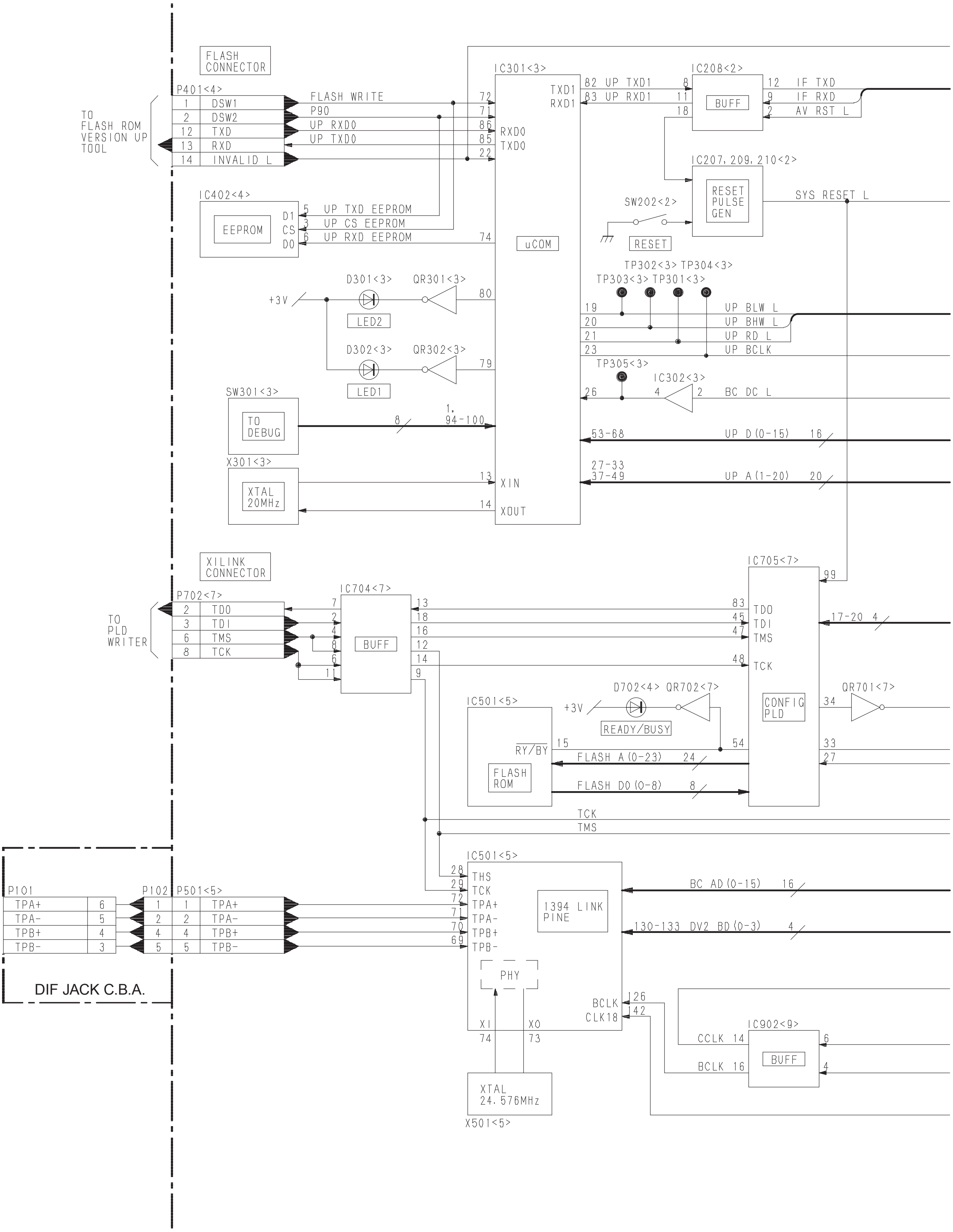
J3200<3>
SDI INPUT
BLACK
IC3201<3>
EQ &
CLK GEN
32 SDO
31 SDO
39
QR3200
<3>
D3200
<3>
LOCK
LED ON
under the
SDI IN &
Signal lock
J3201<3>
SDI THROU
RED
IC3203<3>
BUFF
IC3204<3>
SERIAL
TO
PARALLEL
S2P D(0-9) 10
16
S2P CLK
6, 8
IC3300<4>
CLK
BUFF
11
12
13
IC3301<4>
6-10
12-16
24
56, 57
59-66
SDI
DECODER
99 SIN FS128
55 SIN AUD12
54 SIN AUD34
86-89
ADDRESS BUS(0-3)
72-74
77-81
DATA BUS 5V(0-3)
83 RD L
84 WR L
85 CS DEC L
2 PAL H
94 DEC AMUTE
3
IC3502<6>
176 CS SDI L
106 RST L
SYNC
DET/GEN
202 INCOM CF
203 INCOM FRM
204 INCOM HD
DECOD
(0-9) 10
ROUNDING
10→8BIT
191-195
199-201 REC YC(0-7)
178 CS DEC L
189 PAL H
187 DEC AMUTE
S2P CLK FPGA 182
157 TDO
2 TMS
159 TDI
P3500<6>
2 TDO
3 TDI
6 TMS
8 TCK
TO
PLD
WRITER
IP3503<6>
PLD
3 TDI
5 TMS
7 TCK TDO 31
J3400<5>
S OUT2
YELLOW
J3401<5>
S OUT1
ORANGE
J3500<6>
S OUT3
GREEN
IC3204<5>
PARALLEL
TO
SERIAL
25
24
11
1-10 P2SD(0-9) 10
DELAY
(4 CLOCK
DELAY)
179 CS ENC L
188 ENC AMUTE
ENCOD(0-9)
98-102
108-112 ENCID(0-9)
VIDEO
INDEX
ENCODER
30
IC3507<5>
PARALLEL
TO
SERIAL
25
11
1-10 MOND(0-9) 10
CHAR ADD
(4 CLOCK
DELAY)
141 OSC
136 HSYNC
138 VSYNC
139 VBLK
80 PS2 CLK4
P2S CLK2
P2S CLK3

F3A:SDI BLOCK DIAGRAM (2/2) (AJ-YA455P)

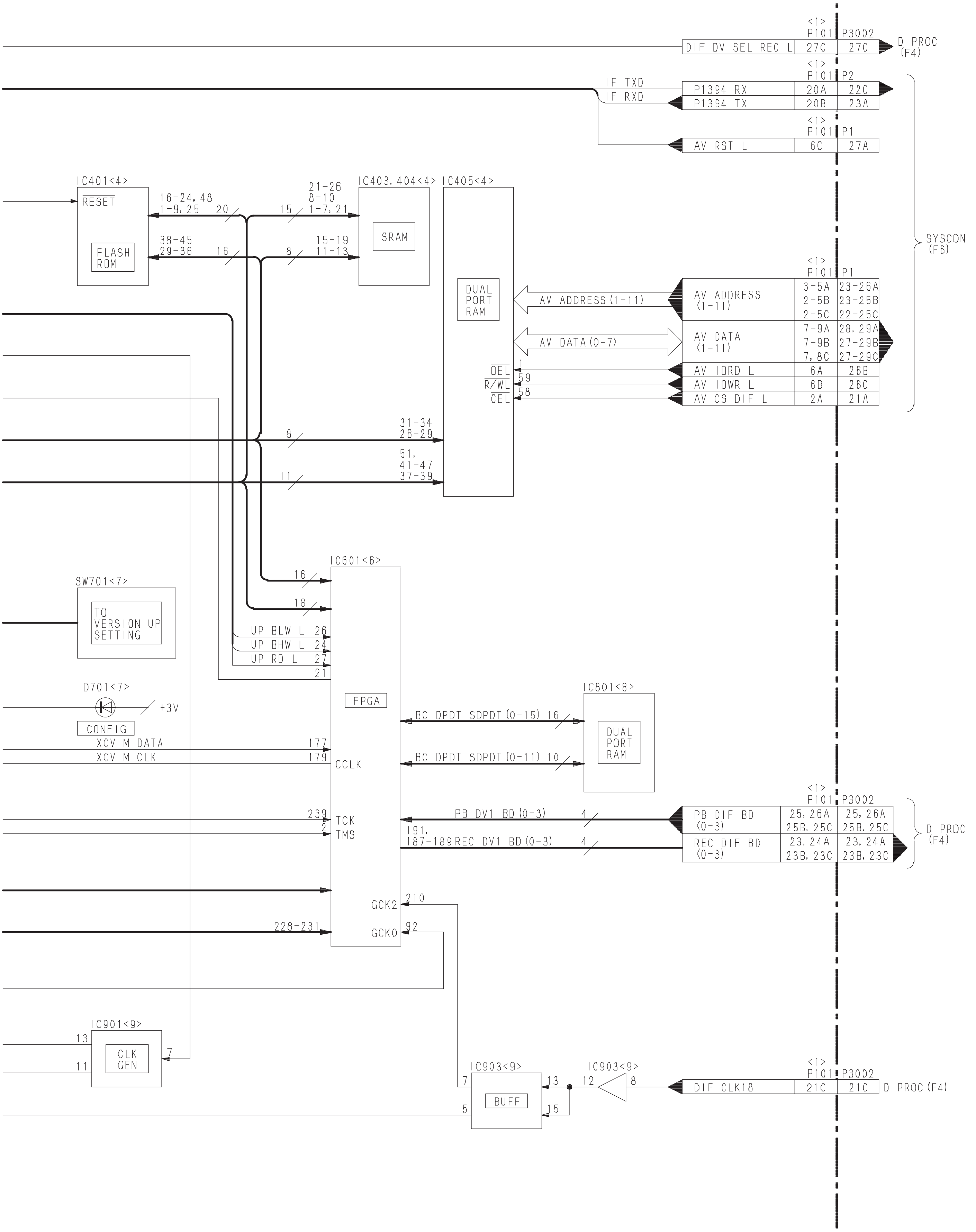


<1>
P3000
P3001
SINCOM CLK27
21C
25A
IC3405<5>
BUFF
11
12
13
4
3
2
9
8
7
16
17
18
PB DAUDCK
10A
26B
S PB AUD12
10B
26C
S PB AUD34
10C
27A
DAUD CLK
9A
25B
S REC AUD12
9B
25C
S REC AUD34
9C
26A
D PROC
(F4)
2
IC3102<2>
BUFF
11-18
ADDRESS BUS(0-10)
2-9
AV ADRS
(0-10)
P1
23-26A
23-25B
22-25C
IC3103<2>
BUFF
11-13
7-9
IC3501<6>
3
RD L 14
WR L 15
CS SDI L 16
RST L 17
18
6
5
4
3
2
AV IORD L
26B
AV IOWR L
26C
AV CS SDI L
22B
22A
AV RST L
27A
SYSCON
(F6)
8
IC3104<2>
DIR
BUFF
1
11-18
2-9
ADDRESS BUS(0.1.9.10)
DATA BUS 5V(0-7)
AV DATA
(0-7)
28.29A
27-29B
27-29C
IC3105<2>
DIR
BUFF
1
11-18
2-9
IC3401<5>
SDI
ENCODER
99
21
22
83 RD L
84 WR L
86-89
ADDRESS BUS(0-3)
72-74
77-81
DATA BUS 5V(0-7)
24
2
85
94
56.57
10 59-66
6-10
10 12-16
INCOM CF
18A
21C
INCOM FRM
18B
22A
INCOM HD
18C
22B
IC3500<6>
BUFF
2-9
11-18
REC YC
(0-1)
19-21A
19-21B
19.20C
D PROC
(F4)
8
SDI YC
(0-7)
15-17A
14-17B
14-16C
P2
REF CF
17C
17B
V OUT
(F2)
IC3505<6>
CHAR
GEN
7
16
15
12
1
2
3
OSD CLK
7B
16A
OSD STB
7C
16C
OSD DATA
7A
16B
SYSCON
(F6)
IC3400<5>
CLK
BUFF
PS2 CLK 1
11
12
13
14
9
8
7
6
REF CLK SDI
14A
14A
V OUT(F2)

F3B: DIF BLOCK DIAGRAM (1/2) (AJ-YAD455P)


FLASH CONNECTOR
P401<4>
TO FLASH ROM VERSION UP TOOL
1 DSW1
2 DSW2
12 TXD
13 RXD
14 INVALID L
FLASH WRITE
P90
UP RXD0
UP TXD0
IC301<3>
72
71
86 RXD0
85 TXD0
22
TXD1
RXD1
82 UP TXD1
83 UP RXD1
IC208<2>
8
11
18
BUFF
12 IF TXD
9 IF RXD
2 AV RST L
IC207, 209, 210<2>
RESET PULSE GEN
SYS RESET L
SW202<2>
RESET
IC402<4>
EEPROM
D1
CS
D0
5 UP TXD EEPROM
3 UP CS EEPROM
6 UP RXD EEPROM
74
uCOM
TP302<3> TP304<3>
TP303<3> TP301<3>
D301<3>
QR301<3>
+3V
LED2
80
19 UP BLW L
20 UP BHW L
21 UP RD L
23 UP BCLK
D302<3>
QR302<3>
LED1
79
TP305<3>
IC302<3>
26
4
2
BC DC L
SW301<3>
TO DEBUG
8
1, 94-100
53-68
UP D(0-15)
16
X301<3>
XTAL 20MHz
13 XIN
14 XOUT
27-33
37-49
UP A(1-20)
20
XILINK CONNECTOR
P702<7>
TO PLD WRITER
2 TD0
3 TDI
6 TMS
8 TCK
IC704<7>
7
2
4
8
6
1
BUFF
13
18
16
12
14
9
IC705<7>
99
83 TD0
45 TDI
47 TMS
48 TCK
17-20
4
D702<4> QR702<7>
+3V
READY/BUSY
CONFIG PLD
QR701<7>
34
IC501<5>
RY/BY
15
54
33
27
FLASH ROM
FLASH A(0-23)
24
FLASH D0(0-8)
8
TCK
TMS
IC501<5>
28 THS
29 TCK
72 TPA+
71 TPA-
70 TPB+
69 TPB-
1394 LINK PINE
BC AD(0-15)
16
130-133 DV2 BD(0-3)
4
PHY
BCLK 126
CLK18 142
XI
XO
74
73
XTAL 24.576MHz
X501<5>
IC902<9>
CCLK 14
BCLK 16
BUFF
6
4
P101
TPA+ 6
TPA- 5
TPB+ 4
TPB- 3
P102
1
2
4
5
P501<5>
1 TPA+
2 TPA-
4 TPB+
5 TPB-
DIF JACK C.B.A.

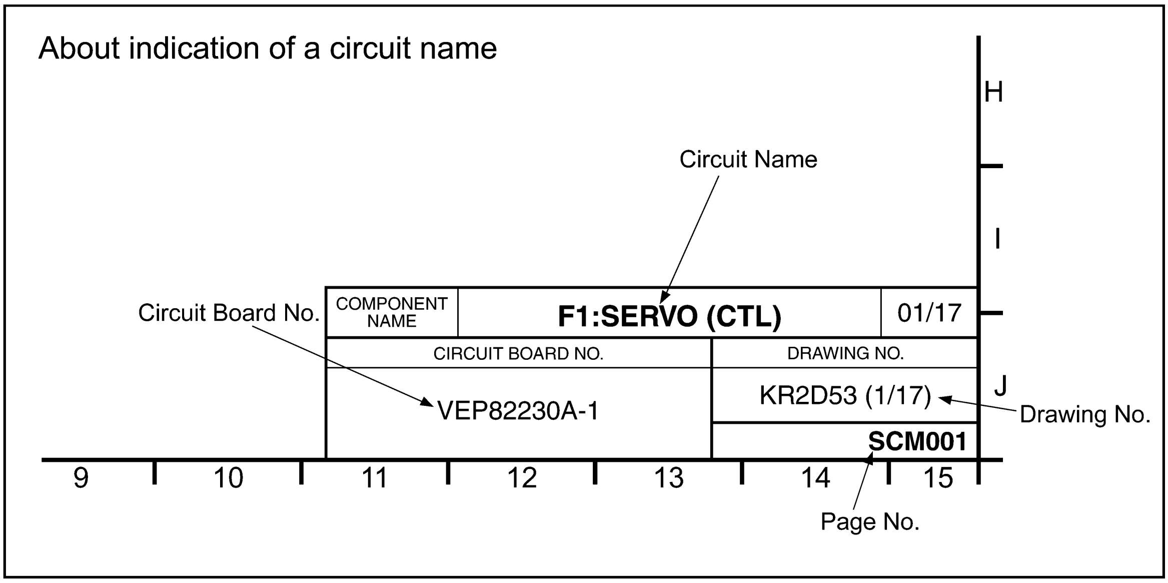
F3B: DIF BLOCK DIAGRAM (2/2) (AJ-YAD455P)



<1> P101 P3002
DIF DV SEL REC L 27C 27C
D PROC (F4)
<1> P101 P2
IF TXD
IF RXD
P1394 RX 20A 22C
P1394 TX 20B 23A
<1> P101 P1
AV RST L 6C 27A
SYSCON (F6)
IC401<4>
RESET
FLASH ROM
16-24, 48 1-9, 25 20
38-45 29-36 16
21-26 8-10 1-7, 21 15
15-19 11-13 8
IC403, 404<4>
SRAM
IC405<4>
DUAL PORT RAM
<1> P101 P1
AV ADDRESS (1-11)
AV ADDRESS (1-11) 3-5A 23-26A 2-5B 23-25B 2-5C 22-25C
AV DATA (0-7)
AV DATA (1-11) 7-9A 28, 29A 7-9B 27-29B 7, 8C 27-29C
OEL 1
R/WL 59
CEL 58
AV IORD L 6A 26B
AV IOWR L 6B 26C
AV CS DIF L 2A 21A
8 31-34 26-29
11 51, 41-47 37-39
IC601<6>
16
18
SW701<7>
TO VERSION UP SETTING
UP BLW L 26
UP BHW L 24
UP RD L 27
21
D701<7>
+3V
CONFIG
FPGA
XCV M DATA 177
XCV M CLK 179
CCLK
IC801<8>
BC DPDT SDPDT (0-15) 16
BC DPDT SDPDT (0-11) 10
DUAL PORT RAM
<1> P101 P3002
239 TCK
2 TMS
PB DV1 BD (0-3) 4
191, 187-189 REC DV1 BD (0-3) 4
PB DIF BD (0-3) 25, 26A 25, 26A 25B, 25C 25B, 25C
REC DIF BD (0-3) 23, 24A 23, 24A 23B, 23C 23B, 23C
D PROC (F4)
GCK2 210
228-231
GCK0 92
IC901<9>
13
11
CLK GEN
7
IC903<9>
7
BUFF
13
5
15
IC903<9>
12
8
<1> P101 P3002
DIF CLK18 21C 21C D PROC (F4)

SECTION 5

SCHAMATIC DIAGRAMS


About indication of a circuit name
H
Circuit Name
I
Circuit Board No.
COMPONENT NAME
F1:SERVO (CTL)
01/17
CIRCUIT BOARD NO.
DRAWING NO.
VEP82230A-1
KR2D53 (1/17)
J
Drawing No.
SCM001
9
10
11
12
13
14
15
Page No.

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 7

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

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F1 : AUDIO

AUDIO (CONNECTOR) (1/9) SCM001
AUDIO (INPUT_12) (2/9) SCM002
AUDIO (A/D, D/A) (3/9) SCM003
AUDIO (D/AOUT_12LR) (4/9) SCM004
AUDIO (MIX/HP_OUT) (5/9) SCM005
AUDIO (OUT PUT_12) (6/9) SCM006
AUDIO (PIO) (7/9) SCM007
AUDIO (CUE_R/P) (8/9) SCM008
AUDIO (CUE_R/P) (9/9) SCM009

F2 : V OUT

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DIN_BUFF (3/14) SCM012
PROC (4/14) SCM013
DOUT_BUFF (5/14) SCM014
DAC (6/14) SCM015
COMPONENT_BUFF (7/14) SCM016
YC_MIX (8/14) SCM017
COMPOSITE_BUFF (9/14) SCM018
SYNC_SEP (10/14) SCM019
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ACNT (25/27) SCM054
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V_IN (DECBUF) (7/18) SCM069
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V_IN (CDEM) (9/18) SCM071
V_IN (SYNC_SEP) (10/18) SCM072
V_IN (135M_PLL) (11/18) SCM073
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V_IN (2nd_AD_PB) (14/18) SCM076
V_IN (2nd_AD_PR) (15/18) SCM077
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RF/EQ (3/7) SCM114
RF/EQ (4/7) SCM115
RF/EQ (5/7) SCM116
RF/EQ (6/7) SCM117
RF/EQ (7/7) SCM118

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MOTHER (2/10) SCM120
MOTHER (3/10) SCM121
MOTHER (4/10) SCM122
MOTHER (5/10) SCM123
MOTHER (6/10) SCM124
MOTHER (7/10) SCM125
MOTHER (8/10) SCM126
MOTHER (9/10) SCM127
MOTHER (10/10) SCM128

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HEAD PHONE (1/1) SCM146

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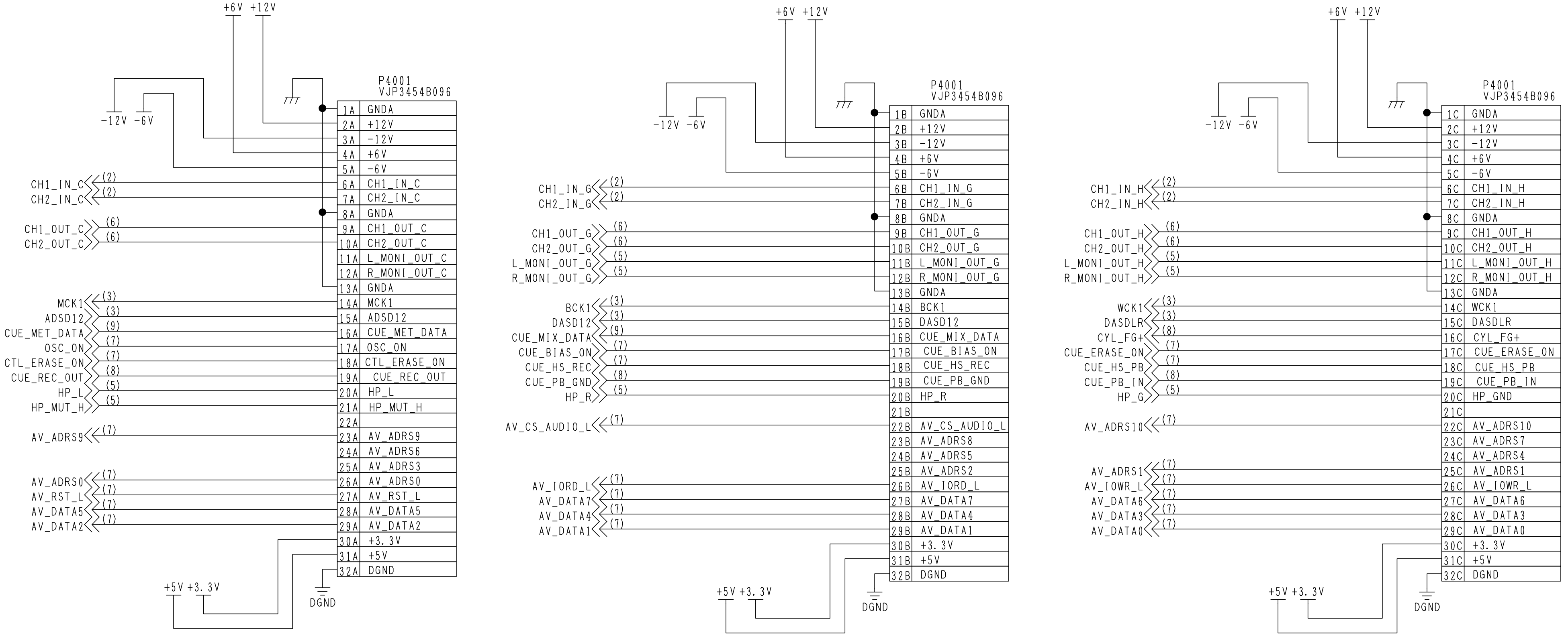
+6V
+12V
-12V
-6V
P4001
VJP3454B096
1A GNDA
2A +12V
3A -12V
4A +6V
5A -6V
6A CH1_IN_C
7A CH2_IN_C
8A GNDA
9A CH1_OUT_C
10A CH2_OUT_C
11A L_MONI_OUT_C
12A R_MONI_OUT_C
13A GNDA
14A MCK1
15A ADSD12
16A CUE_MET_DATA
17A OSC_ON
18A CTL_ERASE_ON
19A CUE_REC_OUT
20A HP_L
21A HP_MUT_H
22A
23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
26A AV_ADRS0
27A AV_RST_L
28A AV_DATA5
29A AV_DATA2
30A +3.3V
31A +5V
32A DGND
CH1_IN_C (2)
CH2_IN_C (2)
CH1_OUT_C (6)
CH2_OUT_C (6)
MCK1 (3)
ADSD12 (3)
CUE_MET_DATA (9)
OSC_ON (7)
CTL_ERASE_ON (7)
CUE_REC_OUT (8)
HP_L (5)
HP_MUT_H (5)
AV_ADRS9 (7)
AV_ADRS0 (7)
AV_RST_L (7)
AV_DATA5 (7)
AV_DATA2 (7)
+5V
+3.3V
DGND
+6V
+12V
-12V
-6V
P4001
VJP3454B096
1B GNDA
2B +12V
3B -12V
4B +6V
5B -6V
6B CH1_IN_G
7B CH2_IN_G
8B GNDA
9B CH1_OUT_G
10B CH2_OUT_G
11B L_MONI_OUT_G
12B R_MONI_OUT_G
13B GNDA
14B BCK1
15B DASD12
16B CUE_MIX_DATA
17B CUE_BIAS_ON
18B CUE_HS_REC
19B CUE_PB_GND
20B HP_R
21B
22B AV_CS_AUDIO_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
26B AV_IORD_L
27B AV_DATA7
28B AV_DATA4
29B AV_DATA1
30B +3.3V
31B +5V
32B DGND
CH1_IN_G (2)
CH2_IN_G (2)
CH1_OUT_G (6)
CH2_OUT_G (6)
L_MONI_OUT_G (5)
R_MONI_OUT_G (5)
BCK1 (3)
DASD12 (3)
CUE_MIX_DATA (9)
CUE_BIAS_ON (7)
CUE_HS_REC (7)
CUE_PB_GND (8)
HP_R (5)
AV_CS_AUDIO_L (7)
AV_IORD_L (7)
AV_DATA7 (7)
AV_DATA4 (7)
AV_DATA1 (7)
+5V
+3.3V
DGND
+6V
+12V
-12V
-6V
P4001
VJP3454B096
1C GNDA
2C +12V
3C -12V
4C +6V
5C -6V
6C CH1_IN_H
7C CH2_IN_H
8C GNDA
9C CH1_OUT_H
10C CH2_OUT_H
11C L_MONI_OUT_H
12C R_MONI_OUT_H
13C GNDA
14C WCK1
15C DASDLR
16C CYL_FG+
17C CUE_ERASE_ON
18C CUE_HS_PB
19C CUE_PB_IN
20C HP_GND
21C
22C AV_ADRS10
23C AV_ADRS7
24C AV_ADRS4
25C AV_ADRS1
26C AV_IOWR_L
27C AV_DATA6
28C AV_DATA3
29C AV_DATA0
30C +3.3V
31C +5V
32C DGND
CH1_IN_H (2)
CH2_IN_H (2)
CH1_OUT_H (6)
CH2_OUT_H (6)
L_MONI_OUT_H (5)
R_MONI_OUT_H (5)
WCK1 (3)
DASDLR (3)
CYL_FG+ (8)
CUE_ERASE_ON (7)
CUE_HS_PB (7)
CUE_PB_IN (8)
HP_G (5)
AV_ADRS10 (7)
AV_ADRS1 (7)
AV_IOWR_L (7)
AV_DATA6 (7)
AV_DATA3 (7)
AV_DATA0 (7)
+5V
+3.3V
DGND
A
B
C
D
E
F
G
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I
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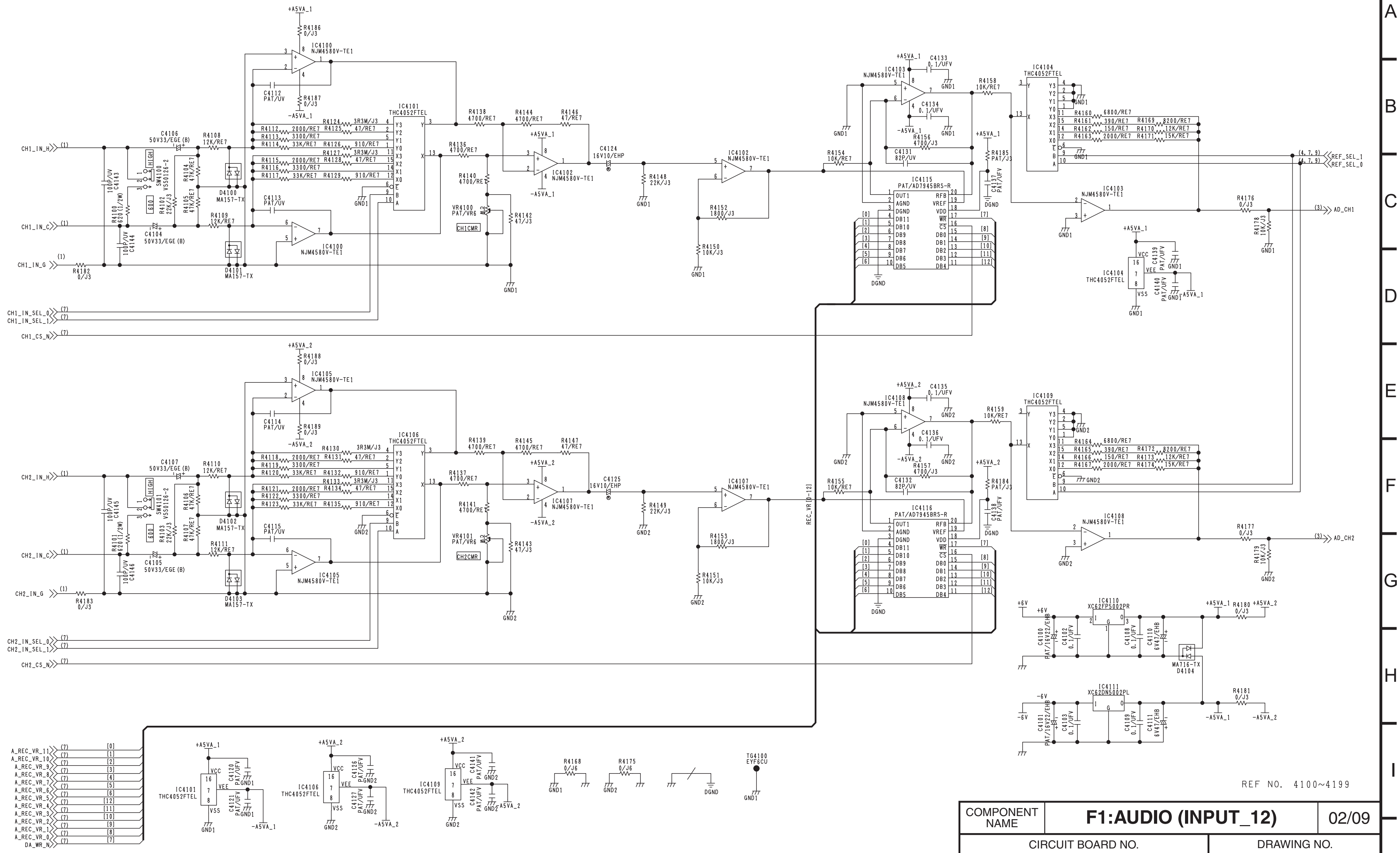
COMPONENT NAME	F1:AUDIO(CONNECTOR)	01/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (1/9)	
	SCM001	


CH1_IN_H
CH1_IN_C
CH1_IN_G
CH1_IN_SEL_0
CH1_IN_SEL_1
CH1_CS_N
CH2_IN_H
CH2_IN_C
CH2_IN_G
CH2_IN_SEL_0
CH2_IN_SEL_1
CH2_CS_N
IC4100 NJM4580V-TE1
IC4101 THC4052FTEL
IC4102 NJM4580V-TE1
IC4103 NJM4580V-TE1
IC4104 THC4052FTEL
IC4105 NJM4580V-TE1
IC4106 THC4052FTEL
IC4107 NJM4580V-TE1
IC4108 NJM4580V-TE1
IC4109 THC4052FTEL
IC4110 XC62FP5002PR
IC4111 XC62DN5002PL
IC4115 PAT/AD7945BRS-R
IC4116 PAT/AD7945BRS-R
SW4100 VS0126-2
SW4101 VS0126-2
HIGH
600
D4100 MA157-TX
D4101 MA157-TX
D4102 MA157-TX
D4103 MA157-TX
D4104 MA716-TX
VR4100 PAT/VR6
VR4101 PAT/VR6
CH1CMR
CH2CMR
C4124 16V10/EHP
C4125 16V10/EHP
REC_VR[0-12]
REF_SEL_1
REF_SEL_0
AD_CH1
AD_CH2
+A5VA_1
-A5VA_1
+A5VA_2
-A5VA_2
+6V
-6V
GND1
GND2
DGND
TG4100 EYF6CU
A_REC_VR_11
A_REC_VR_10
A_REC_VR_9
A_REC_VR_8
A_REC_VR_7
A_REC_VR_6
A_REC_VR_5
A_REC_VR_4
A_REC_VR_3
A_REC_VR_2
A_REC_VR_1
A_REC_VR_0
DA_WR_N
A
B
C
D
E
F
G
H
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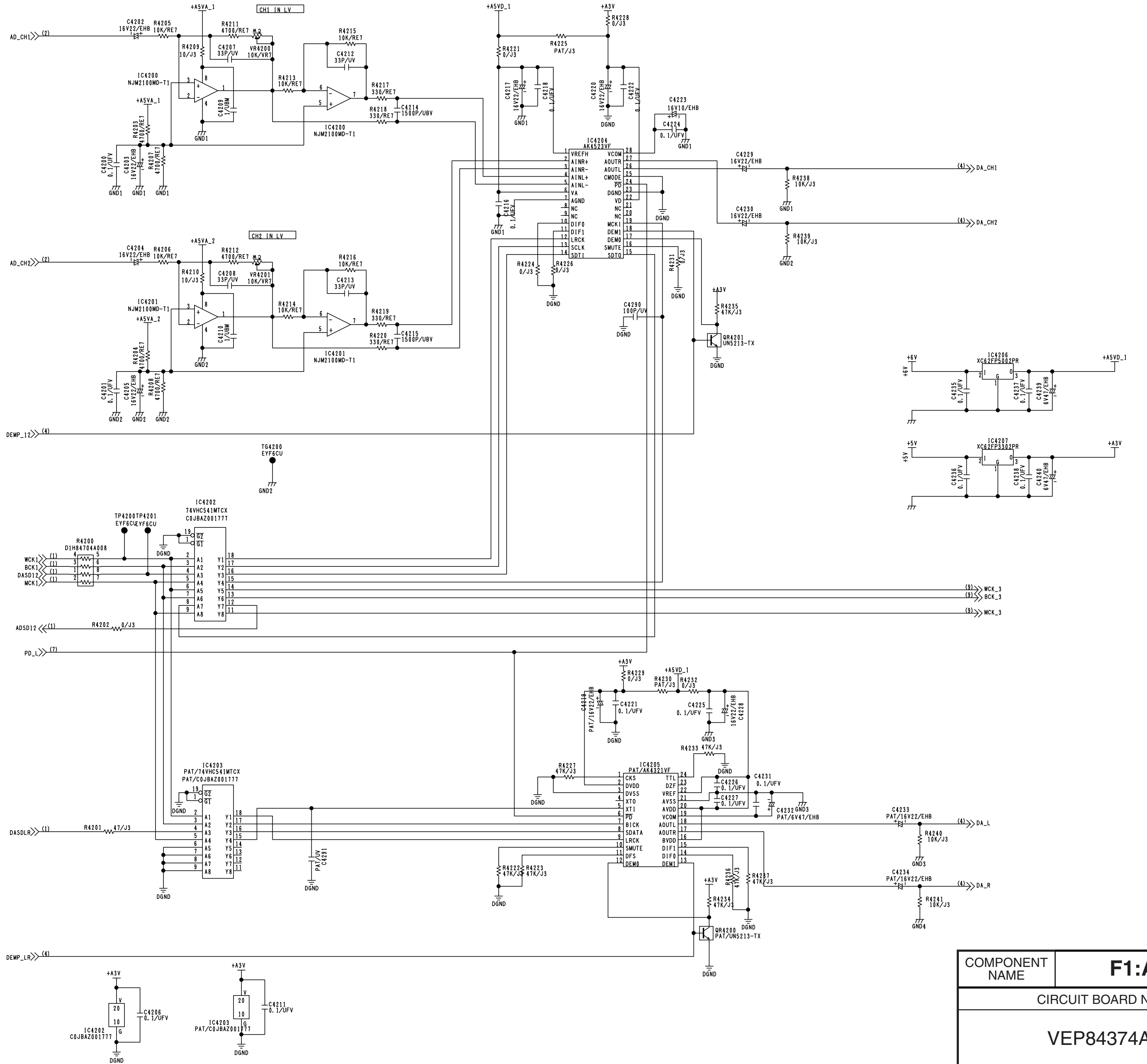
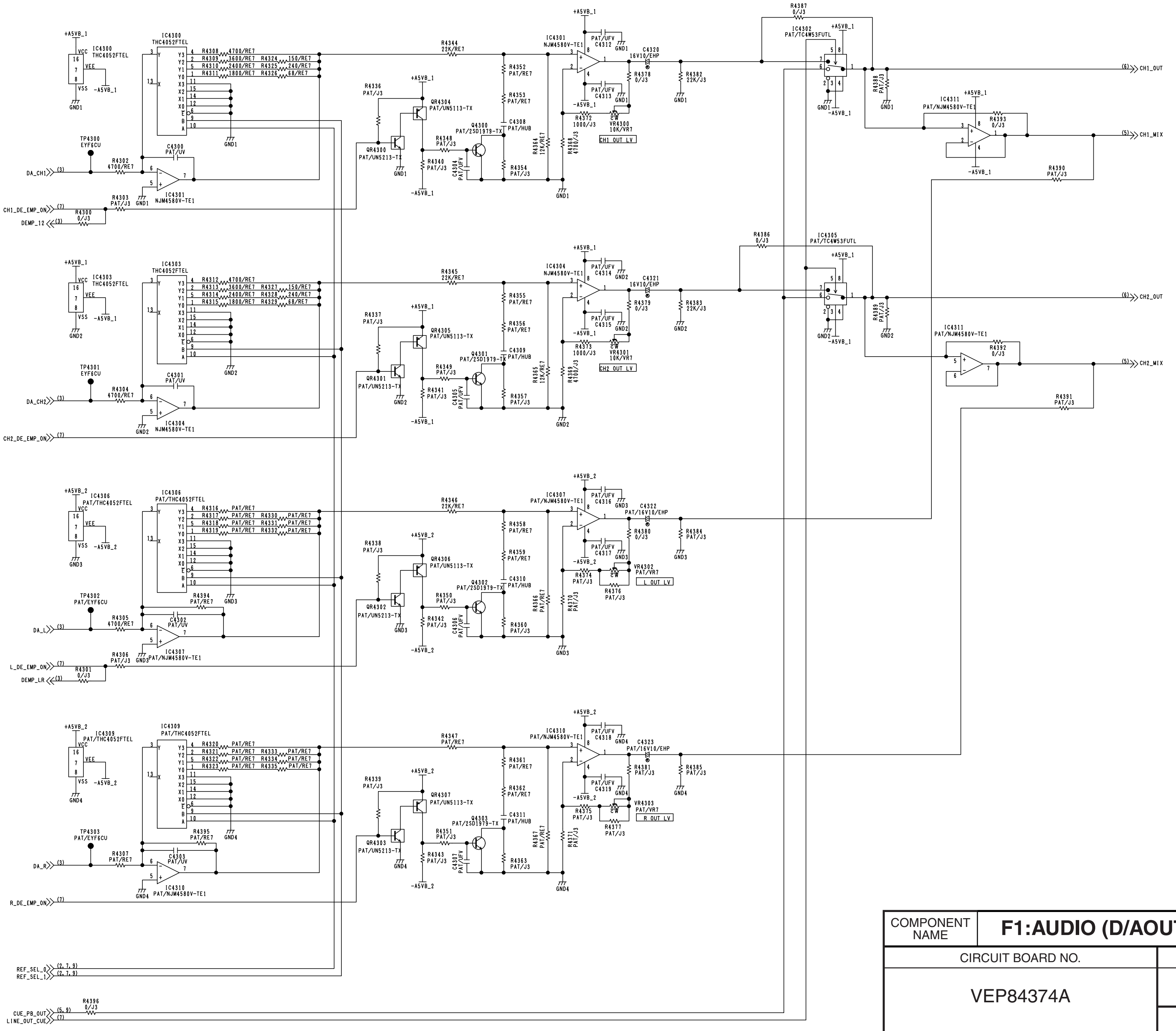
REF NO. 4100~4199

COMPONENT NAME	F1:AUDIO (INPUT_12)	02/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (2/9)	
	SCM002	


AD_CH1 (2)
C4202 16V22/EHB
R4205 10K/RE7
+A5VA_1
CH1 IN LV
R4211 4700/RE7
R4209 10/J3
C4207 33P/UV
VR4200 10K/VR7
R4215 10K/RE7
C4212 33P/UV
IC4200 NJM2100MD-T1
C4209 1/UBM
GND1
R4213 10K/RE7
R4217 330/RE7
R4218 330/RE7
C4214 1500P/UBV
R4203 4700/RE7
C4200 0.1/UFV
C4203 16V22/EHB
R4207 4700/RE7
AD_CH2 (2)
C4204 16V22/EHB
R4206 10K/RE7
+A5VA_2
CH2 IN LV
R4212 4700/RE7
R4210 10/J3
C4208 33P/UV
VR4201 10K/VR7
R4216 10K/RE7
C4213 33P/UV
IC4201 NJM2100MD-T1
C4210 1/UBM
GND2
R4214 10K/RE7
R4219 330/RE7
R4220 330/RE7
C4215 1500P/UBV
R4204 4700/RE7
C4201 0.1/UFV
C4205 16V22/EHB
R4208 4700/RE7
DEMP_12 (4)
TG4200 EYF6CU
+A5VD_1
+A3V
R4228 0/J3
R4221 0/J3
R4225 PAT/J3
C4217 16V22/EHB
C4218 0.1/UFV
C4220 16V22/EHB
C4222 0.1/UFV
DGND
C4223 16V10/EHB
C4224 0.1/UFV
IC4204 AK4523VF
VREFH AINR+ AINR- AINL+ AINL- VA AGND NC NC DIF0 DIF1 LRCK SCLK SDTI
VCOM AOUTR AOUTL CMODE PD DGND VD NC NC MCKI DEM1 DEM0 SMUTE SDTO
C4216 0.1/UFV
R4224 0/J3
R4226 0/J3
R4231 0/J3
C4290 100P/UV
R4235 47K/J3
QR4201 UN5213-TX
C4229 16V22/EHB
R4238 10K/J3
(4) DA_CH1
C4230 16V22/EHB
R4239 10K/J3
(4) DA_CH2
+6V
IC4206 XC62FP5002PR
C4235 0.1/UFV
C4237 0.1/UFV
C4239 6V47/EHB
+A5VD_1
+5V
IC4207 XC62FP3302PR
C4236 0.1/UFV
C4238 0.1/UFV
C4240 6V47/EHB
+A3V
TP4200 TP4201 EYF6CU EYF6CU
IC4202 74VHC541MTCX C0JBAZ001777
R4200 D1H84704A008
WCK1 (1)
BCK1 (1)
DASD12 (1)
MCK1 (1)
ADSD12 (1)
R4202 0/J3
PD_L (7)
(9) WCK_3
(9) BCK_3
(9) MCK_3
IC4203 PAT/74VHC541MTCX PAT/C0JBAZ001777
DASDLR (1)
R4201 47/J3
C4291 PAT/UV
R4229 0/J3
R4230 PAT/J3
R4232 0/J3
C4219 PAT/16V22/EHB
C4221 0.1/UFV
C4225 0.1/UFV
C4228 16V22/EHB
GND3
R4233 47K/J3
R4227 47K/J3
IC4205 PAT/AK4321VF
CKS DVDD DVSS XTO XTI PD BICK SDATA LRCK SMUTE DFS DEM0
TTL DZF VREF AVSS AVDD VCOM AOUTL AOUTR BVDD DIF1 DIF0 DEM1
C4226 0.1/UFV
C4227 0.1/UFV
C4231 0.1/UFV
C4232 PAT/6V47/EHB
R4222 47K/J3
R4223 47K/J3
R4236 47K/J3
R4237 47K/J3
R4234 47K/J3
QR4200 PAT/UN5213-TX
C4233 PAT/16V22/EHB
R4240 10K/J3
(4) DA_L
C4234 PAT/16V22/EHB
R4241 10K/J3
(4) DA_R
GND4
DEMP_LR (4)
IC4202 C0JBAZ001777
C4206 0.1/UFV
IC4203 PAT/C0JBAZ001777
C4211 0.1/UFV

REF NO. 4200~4299

COMPONENT NAME	F1:AUDIO (D/A, A/D)	03/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05(3/9)	
	SCM003	


IC4300 THC4052FTEL
IC4301 NJM4580V-TE1
IC4302 PAT/TC4W53FUTL
IC4303 THC4052FTEL
IC4304 NJM4580V-TE1
IC4305 PAT/TC4W53FUTL
IC4306 PAT/THC4052FTEL
IC4307 PAT/NJM4580V-TE1
IC4309 PAT/THC4052FTEL
IC4310 PAT/NJM4580V-TE1
IC4311 PAT/NJM4580V-TE1
Q4300 PAT/2SD1979-TX
Q4301 PAT/2SD1979-TX
Q4302 PAT/2SD1979-TX
Q4303 PAT/2SD1979-TX
QR4300 PAT/UN5213-TX
QR4301 PAT/UN5213-TX
QR4302 PAT/UN5213-TX
QR4303 PAT/UN5213-TX
QR4304 PAT/UN5113-TX
QR4305 PAT/UN5113-TX
QR4306 PAT/UN5113-TX
QR4307 PAT/UN5113-TX
VR4300 10K/VR7
VR4301 10K/VR7
VR4302 PAT/VR7
VR4303 PAT/VR7
CH1 OUT LV
CH2 OUT LV
L OUT LV
R OUT LV
TP4300 EYF6CU
TP4301 EYF6CU
TP4302 PAT/EYF6CU
TP4303 PAT/EYF6CU
DA_CH1
CH1_DE_EMP_ON
DEMP_12
DA_CH2
CH2_DE_EMP_ON
DA_L
L_DE_EMP_ON
DEMP_LR
DA_R
R_DE_EMP_ON
REF_SEL_0
REF_SEL_1
CUE_PB_OUT
LINE_OUT_CUE
CH1_OUT
CH1_MIX
CH2_OUT
CH2_MIX
+A5VB_1
-A5VB_1
+A5VB_2
-A5VB_2
GND1
GND2
GND3
GND4
A
B
C
D
E
F
G
H
I
J
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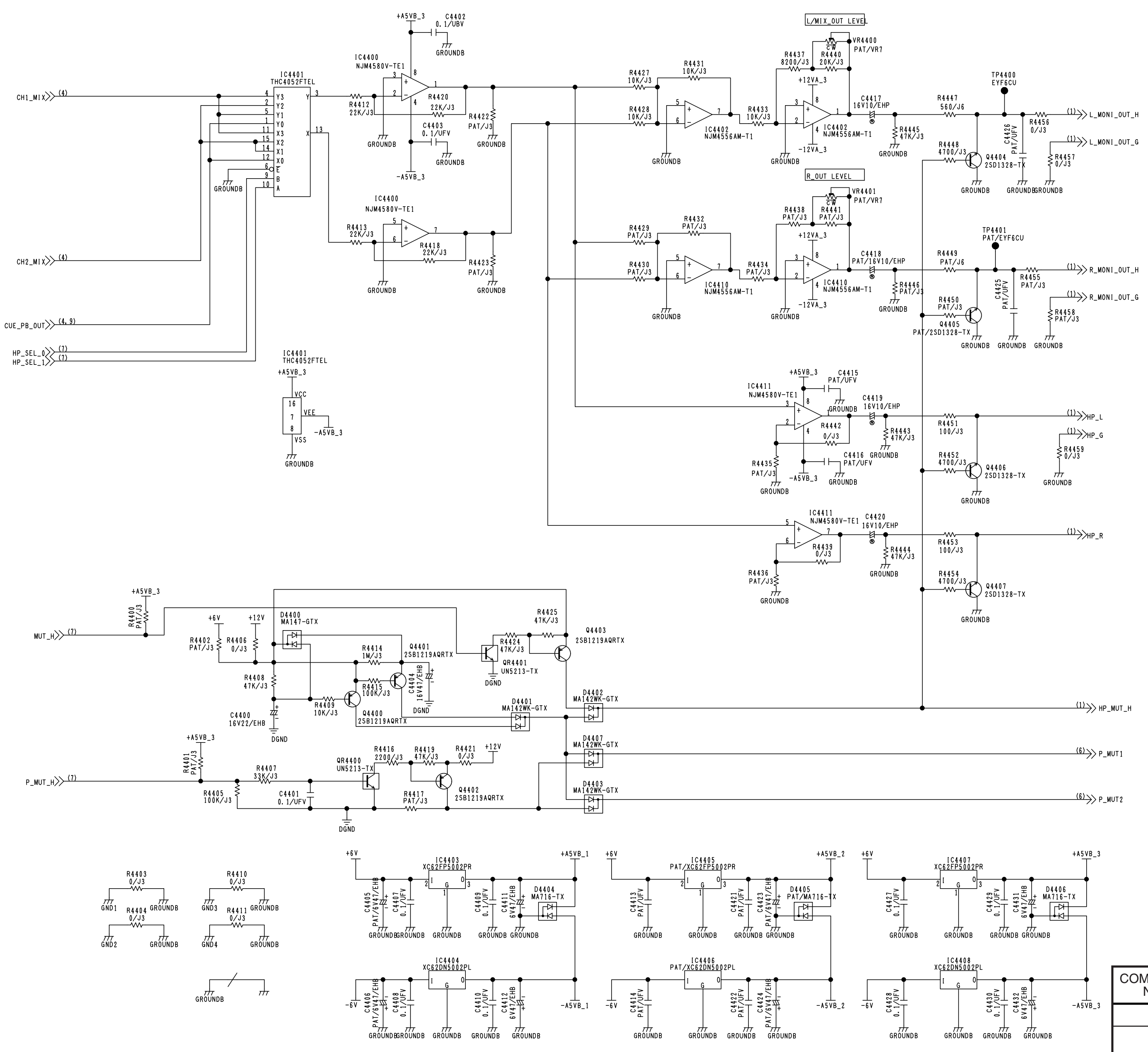
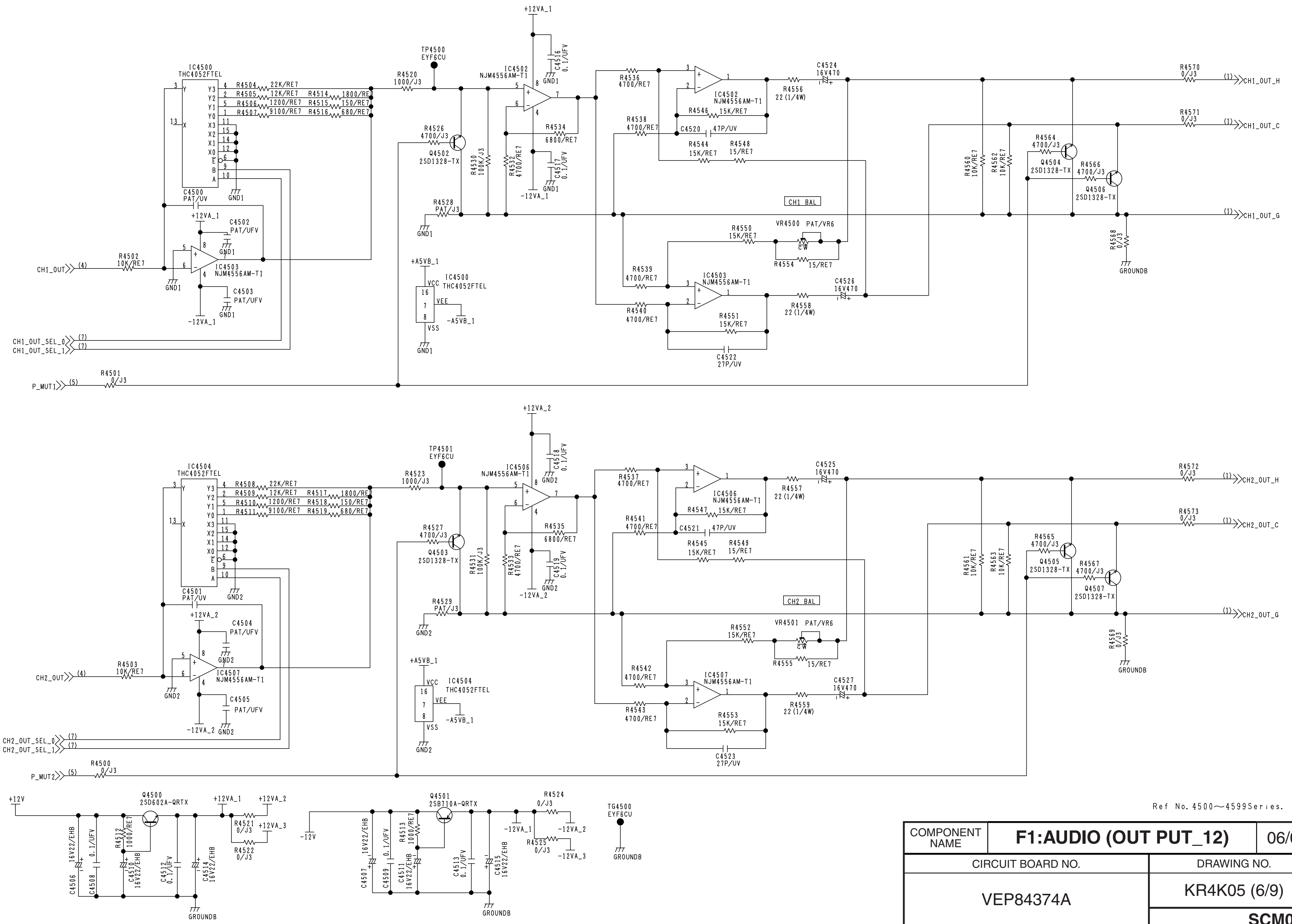
COMPONENT NAME	F1:AUDIO (D/AOUT_12LR)	04/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05(4/9)	
	SCM004	


CH1_MIX (4)
CH2_MIX (4)
CUE_PB_OUT (4, 9)
HP_SEL_0 (7)
HP_SEL_1 (7)
IC4401 THC4052FTEL
Y3 Y2 Y1 Y0 X3 X2 X1 X0 E B A
+A5VB_3
C4402 0.1/UBV
IC4400 NJM4580V-TE1
R4412 22K/J3
R4420 22K/J3
C4403 0.1/UFV
-A5VB_3
R4422 PAT/J3
R4413 22K/J3
R4418 22K/J3
R4423 PAT/J3
IC4401 THC4052FTEL
VCC VEE VSS
GROUNDB
R4427 10K/J3
R4431 10K/J3
R4428 10K/J3
IC4402 NJM4556AM-T1
R4433 10K/J3
L/MIX_OUT LEVEL
VR4400 PAT/VR7
R4437 8200/J3
R4440 20K/J3
+12VA_3
-12VA_3
C4417 16V10/EHP
R4445 47K/J3
R4447 560/J6
TP4400 EYF6CU
C4426 PAT/UFV
R4456 0/J3
L_MONI_OUT_H (1)
L_MONI_OUT_G (1)
R4457 0/J3
R4448 4700/J3
Q4404 2SD1328-TX
R4429 PAT/J3
R4432 PAT/J3
R4430 PAT/J3
IC4410 NJM4556AM-T1
R4434 PAT/J3
R_OUT LEVEL
VR4401 PAT/VR7
R4438 PAT/J3
R4441 PAT/J3
C4418 PAT/16V10/EHP
R4446 PAT/J3
R4449 PAT/J6
TP4401 PAT/EYF6CU
C4425 PAT/UFV
R4455 PAT/J3
R_MONI_OUT_H (1)
R_MONI_OUT_G (1)
R4458 PAT/J3
R4450 PAT/J3
Q4405 PAT/2SD1328-TX
IC4411 NJM4580V-TE1
C4415 PAT/UFV
C4419 16V10/EHP
R4442 0/J3
R4443 47K/J3
R4451 100/J3
HP_L (1)
HP_G (1)
R4459 0/J3
R4435 PAT/J3
C4416 PAT/UFV
R4452 4700/J3
Q4406 2SD1328-TX
C4420 16V10/EHP
R4439 0/J3
R4444 47K/J3
R4453 100/J3
HP_R (1)
R4436 PAT/J3
R4454 4700/J3
Q4407 2SD1328-TX
MUT_H (7)
R4400 PAT/J3
+6V
+12V
R4402 PAT/J3
R4406 0/J3
D4400 MA147-GTX
R4414 1M/J3
Q4401 2SB1219AQRTX
C4404 16V47/EHB
R4408 47K/J3
R4415 100K/J3
R4409 10K/J3
Q4400 2SB1219AQRTX
C4400 16V22/EHB
DGND
R4424 47K/J3
QR4401 UN5213-TX
R4425 47K/J3
Q4403 2SB1219AQRTX
D4401 MA142WK-GTX
D4402 MA142WK-GTX
HP_MUT_H (1)
D4407 MA142WK-GTX
P_MUT1 (6)
D4403 MA142WK-GTX
P_MUT2 (6)
P_MUT_H (7)
R4401 PAT/J3
R4405 100K/J3
R4407 33K/J3
C4401 0.1/UFV
QR4400 UN5213-TX
R4416 2200/J3
R4419 47K/J3
R4421 0/J3
R4417 PAT/J3
Q4402 2SB1219AQRTX
R4403 0/J3
R4404 0/J3
R4410 0/J3
R4411 0/J3
GND1 GND2 GND3 GND4
IC4403 XC62FP5002PR
C4405 PAT/6V47/EHB
C4407 0.1/UFV
C4409 0.1/UFV
C4411 6V47/EHB
D4404 MA716-TX
+A5VB_1
IC4404 XC62DN5002PL
C4406 PAT/6V47/EHB
C4408 0.1/UFV
C4410 0.1/UFV
C4412 6V47/EHB
-6V
-A5VB_1
IC4405 PAT/XC62FP5002PR
C4413 PAT/UFV
C4421 PAT/UFV
C4423 PAT/6V47/EHB
D4405 PAT/MA716-TX
+A5VB_2
IC4406 PAT/XC62DN5002PL
C4414 PAT/UFV
C4422 PAT/UFV
C4424 PAT/6V47/EHB
-A5VB_2
IC4407 XC62FP5002PR
C4427 0.1/UFV
C4429 0.1/UFV
C4431 6V47/EHB
D4406 MA716-TX
+A5VB_3
IC4408 XC62DN5002PL
C4428 0.1/UFV
C4430 0.1/UFV
C4432 6V47/EHB
-A5VB_3
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

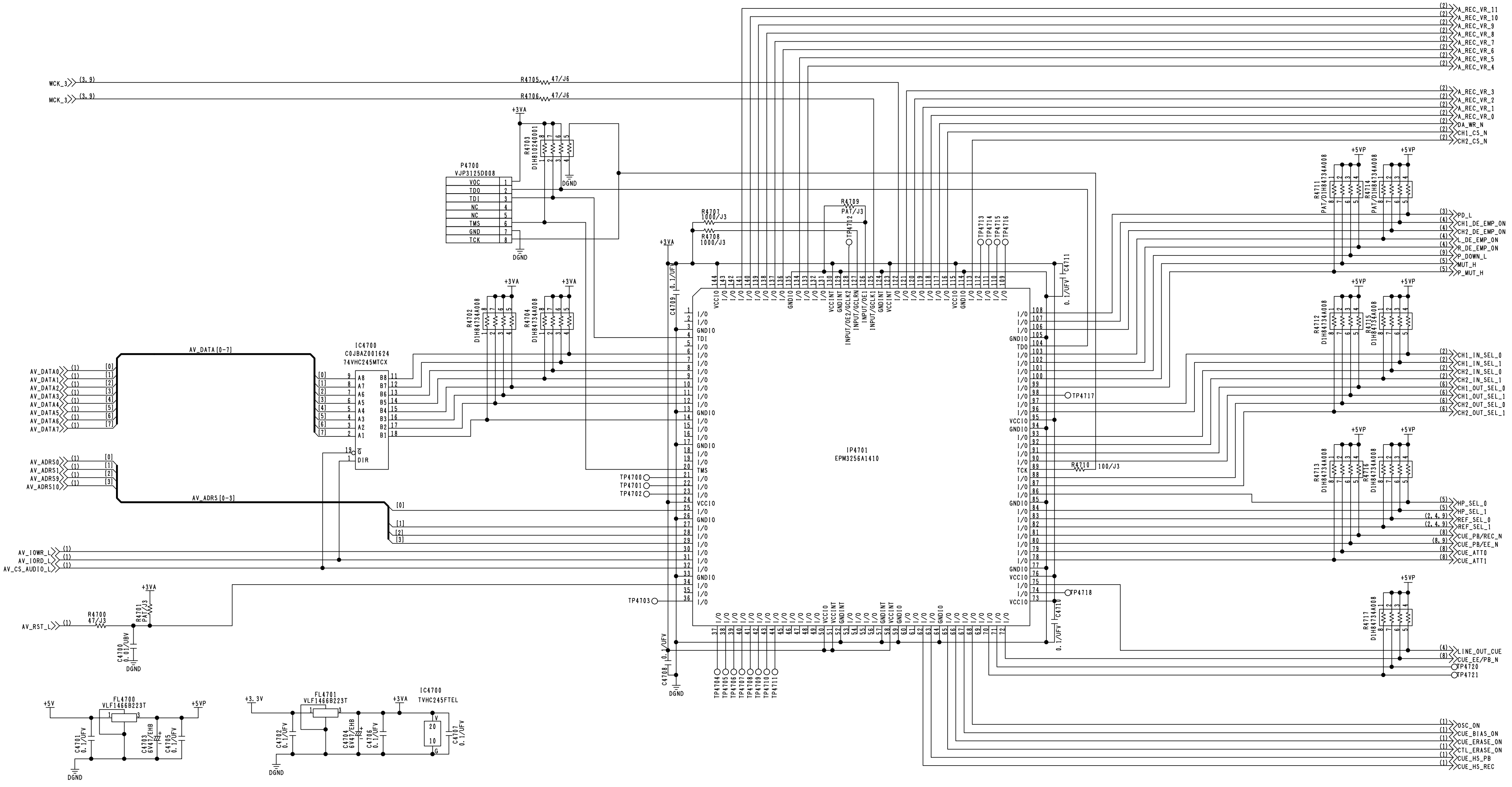
COMPONENT NAME	**F1:AUDIO (MIX/HP_OUT)**	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (5/9)	
	SCM005	



+12VA_1
C4516 0.1/UFV
GND1
TP4500 EYF6CU
IC4502 NJM4556AM-T1
IC4500 THC4052FTEL
R4504 22K/RE7
R4505 12K/RE7
R4514 1800/RE7
R4506 1200/RE7
R4515 150/RE7
R4507 9100/RE7
R4516 680/RE7
R4520 1000/J3
R4526 4700/J3
Q4502 2SD1328-TX
R4530 100K/J3
R4532 4700/RE7
R4534 6800/RE7
C4517 0.1/UFV
-12VA_1
R4528 PAT/J3
C4500 PAT/UV
C4502 PAT/UFV
C4503 PAT/UFV
IC4503 NJM4556AM-T1
R4502 10K/RE7
CH1_OUT
-12VA_1
+A5VB_1
IC4500 THC4052FTEL
VCC VEE VSS
-A5VB_1
CH1_OUT_SEL_0
CH1_OUT_SEL_1
R4501 0/J3
P_MUT1
R4536 4700/RE7
R4538 4700/RE7
C4520 47P/UV
R4546 15K/RE7
R4544 15K/RE7
R4548 15/RE7
R4556 22(1/4W)
C4524 16V470
CH1 BAL
R4550 15K/RE7
VR4500 PAT/VR6
CW
R4554 15/RE7
R4539 4700/RE7
R4540 4700/RE7
R4551 15K/RE7
C4522 27P/UV
R4558 22(1/4W)
C4526 16V470
R4560 10K/RE7
R4562 10K/RE7
R4564 4700/J3
Q4504 2SD1328-TX
R4566 4700/J3
Q4506 2SD1328-TX
R4568 0/J3
GROUNDB
R4570 0/J3
R4571 0/J3
CH1_OUT_H
CH1_OUT_C
CH1_OUT_G
+12VA_2
C4518 0.1/UFV
GND2
TP4501 EYF6CU
IC4506 NJM4556AM-T1
IC4504 THC4052FTEL
R4508 22K/RE7
R4509 12K/RE7
R4517 1800/RE7
R4510 1200/RE7
R4518 150/RE7
R4511 9100/RE7
R4519 680/RE7
R4523 1000/J3
R4527 4700/J3
Q4503 2SD1328-TX
R4531 100K/J3
R4533 4700/RE7
R4535 6800/RE7
C4519 0.1/UFV
-12VA_2
R4529 PAT/J3
C4501 PAT/UV
C4504 PAT/UFV
C4505 PAT/UFV
IC4507 NJM4556AM-T1
R4503 10K/RE7
CH2_OUT
CH2_OUT_SEL_0
CH2_OUT_SEL_1
R4500 0/J3
P_MUT2
R4537 4700/RE7
R4541 4700/RE7
C4521 47P/UV
R4547 15K/RE7
R4545 15K/RE7
R4549 15/RE7
R4557 22(1/4W)
C4525 16V470
CH2 BAL
R4552 15K/RE7
VR4501 PAT/VR6
R4555 15/RE7
R4542 4700/RE7
R4543 4700/RE7
R4553 15K/RE7
C4523 27P/UV
R4559 22(1/4W)
C4527 16V470
R4561 10K/RE7
R4563 10K/RE7
R4565 4700/J3
Q4505 2SD1328-TX
R4567 4700/J3
Q4507 2SD1328-TX
R4569 0/J3
R4572 0/J3
R4573 0/J3
CH2_OUT_H
CH2_OUT_C
CH2_OUT_G
+12V
Q4500 2SD602A-QRTX
C4506 16V22/EHB
C4508 0.1/UFV
R4512 1000/RE7
C4510 16V22/EHB
C4512 0.1/UFV
C4514 16V22/EHB
+12VA_1
+12VA_2
+12VA_3
R4521 0/J3
R4522 0/J3
-12V
Q4501 2SB710A-QRTX
C4507 16V22/EHB
C4509 0.1/UFV
R4513 1000/RE7
C4511 16V22/EHB
C4513 0.1/UFV
C4515 16V22/EHB
R4524 0/J3
R4525 0/J3
-12VA_1
-12VA_2
-12VA_3
TG4500 EYF6CU
GROUNDB
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Ref No. 4500〜4599Series.

COMPONENT NAME	F1:AUDIO (OUT PUT_12)	06/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (6/9)	
	SCM006	


IP4701
EPM3256A1410
IC4700
C0JBAZ001624
74VHC245MTCX
P4700
VJP3125D008
VDC
TDO
TDI
NC
NC
TMS
GND
TCK
R4705 47/J6
R4706 47/J6
R4703 D1H810240001
R4702 D1H84734A008
R4704 D1H84734A008
R4707 1000/J3
R4708 1000/J3
R4709 PAT/J3
R4710 100/J3
R4711 PAT/D1H84734A008
R4714 PAT/D1H84734A008
R4712 D1H84734A008
R4715 D1H84734A008
R4713 D1H84734A008
R4716 D1H84734A008
R4717 D1H84734A008
R4700 47/J3
R4701 PAT/J3
C4700 0.01/UBV
C4709 0.1/UF
C4708 0.1/UFV
C4710 0.1/UFV
C4711 0.1/UFV
FL4700 VLF1466B223T
FL4701 VLF1466B223T
IC4700 TVHC245FTEL
C4701 0.1/UFV
C4703 6V47 EHB
C4705 0.1/UFV
C4702 0.1/UFV
C4704 6V47 EHB
C4706 0.1/UFV
C4707 0.1/UFV
+3VA
+5VP
+5V
+3.3V
DGND
WCK_3
MCK_3
AV_DATA[0-7]
AV_DATA0
AV_DATA1
AV_DATA2
AV_DATA3
AV_DATA4
AV_DATA5
AV_DATA6
AV_DATA7
AV_ADRS[0-3]
AV_ADRS0
AV_ADRS1
AV_ADRS9
AV_ADRS10
AV_IOWR_L
AV_IORD_L
AV_CS_AUDIO_L
AV_RST_L
DIR
A_REC_VR_11
A_REC_VR_10
A_REC_VR_9
A_REC_VR_8
A_REC_VR_7
A_REC_VR_6
A_REC_VR_5
A_REC_VR_4
A_REC_VR_3
A_REC_VR_2
A_REC_VR_1
A_REC_VR_0
DA_WR_N
CH1_CS_N
CH2_CS_N
PD_L
CH1_DE_EMP_ON
CH2_DE_EMP_ON
L_DE_EMP_ON
R_DE_EMP_ON
P_DOWN_L
MUT_H
P_MUT_H
CH1_IN_SEL_0
CH1_IN_SEL_1
CH2_IN_SEL_0
CH2_IN_SEL_1
CH1_OUT_SEL_0
CH1_OUT_SEL_1
CH2_OUT_SEL_0
CH2_OUT_SEL_1
HP_SEL_0
HP_SEL_1
REF_SEL_0
REF_SEL_1
CUE_PB/REC_N
CUE_PB/EE_N
CUE_ATT0
CUE_ATT1
LINE_OUT_CUE
CUE_EE/PB_N
TP4720
TP4721
OSC_ON
CUE_BIAS_ON
CUE_ERASE_ON
CTL_ERASE_ON
CUE_HS_PB
CUE_HS_REC
TP4700
TP4701
TP4702
TP4703
TP4704
TP4705
TP4706
TP4707
TP4708
TP4709
TP4710
TP4711
TP4712
TP4713
TP4714
TP4715
TP4716
TP4717
TP4718
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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8
9
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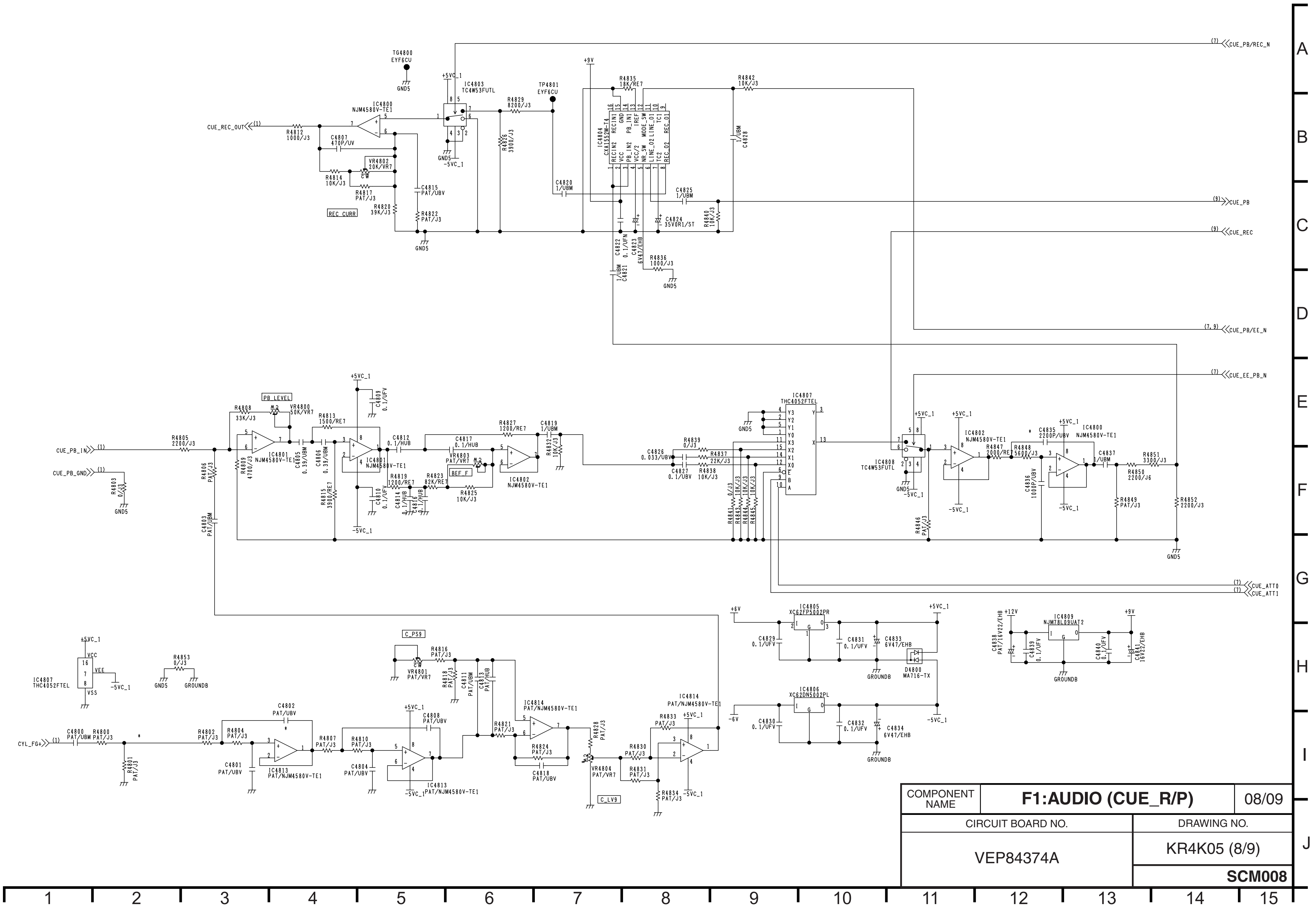
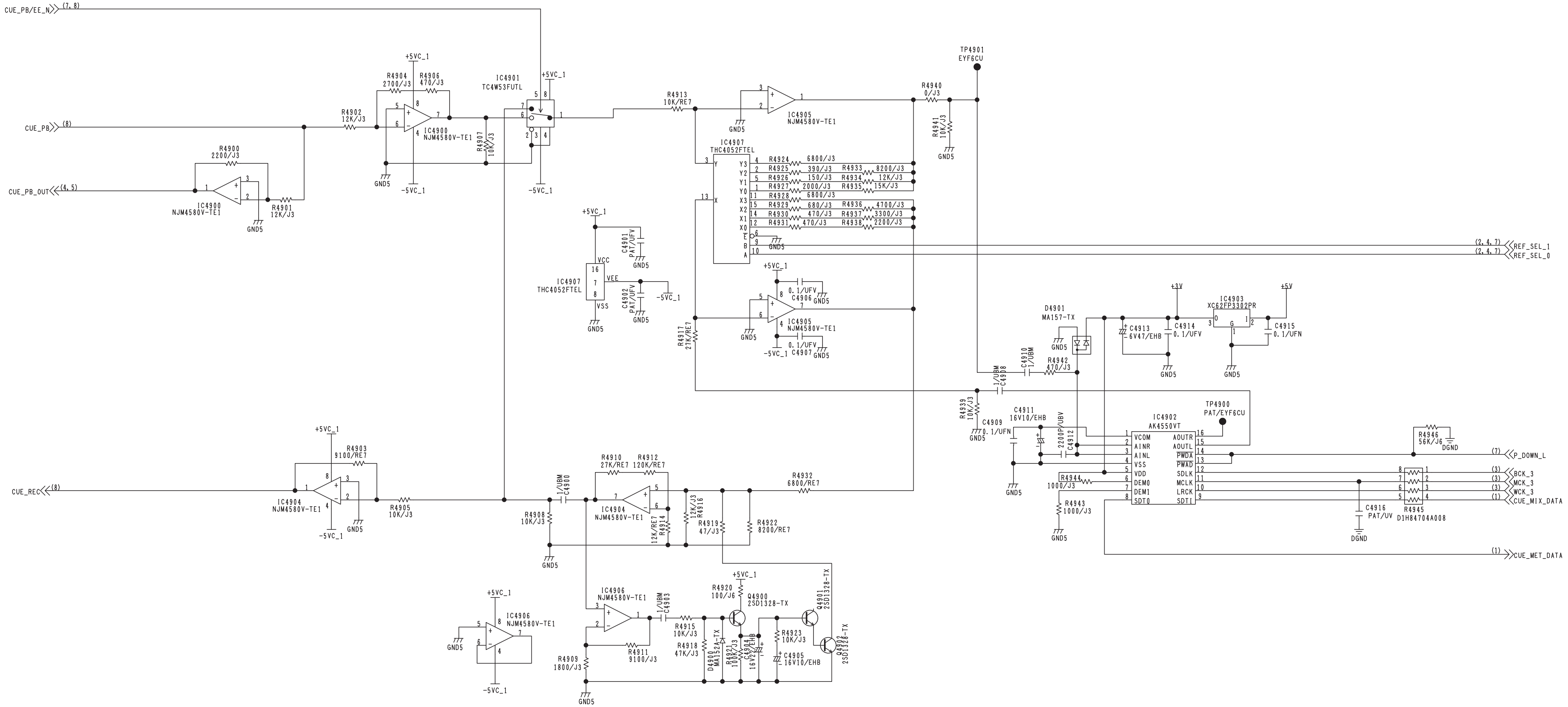
12
13
14
15

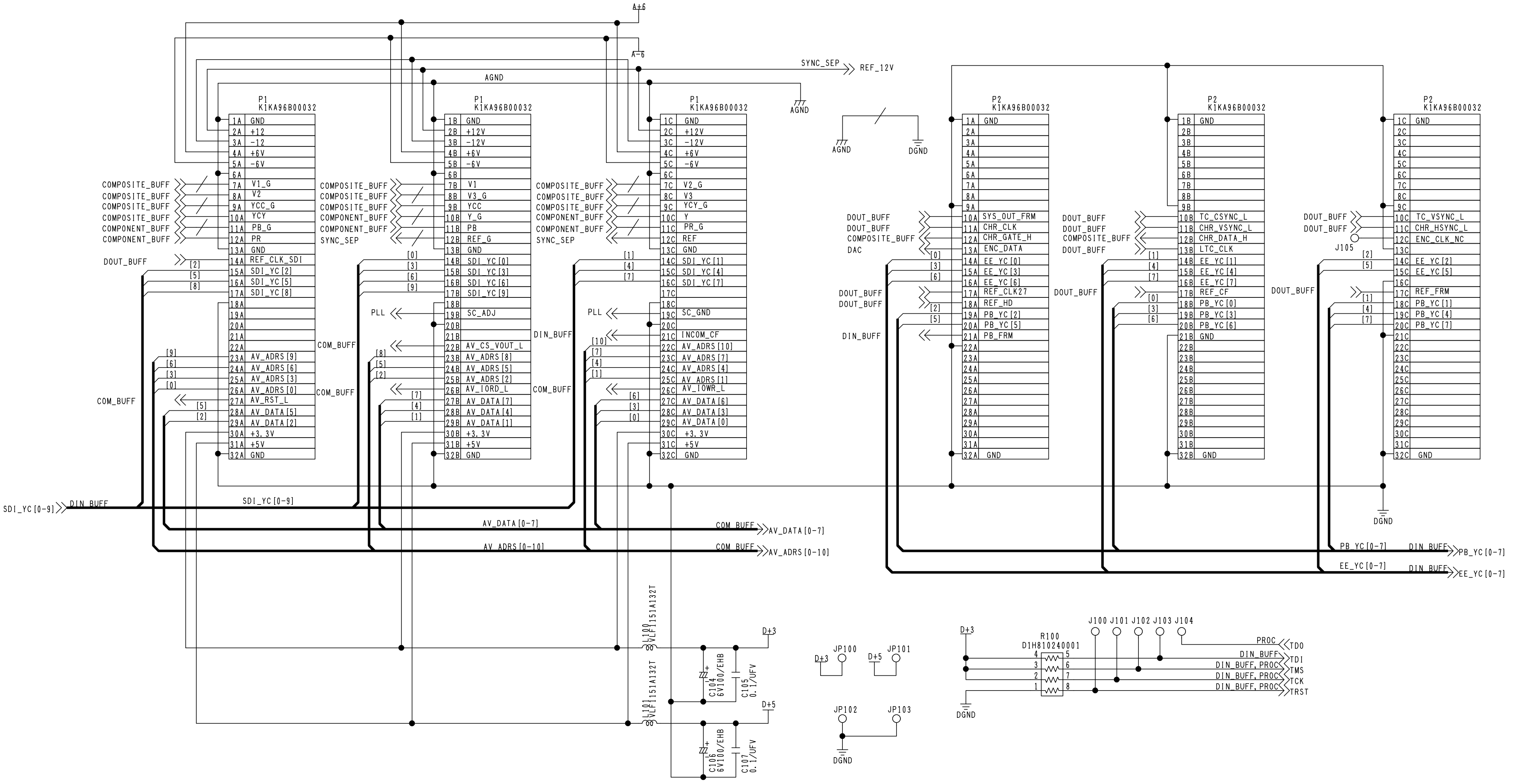
COMPONENT NAME	F1:AUDIO (PIO)	07/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (7/9)	
	SCM007	


A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
TG4800 EYF6CU
GND5
+5VC_1
IC4803 TC4W53FUTL
-5VC_1
IC4800 NJM4580V-TE1
CUE_REC_OUT (1)
R4812 1000/J3
C4807 470P/UV
VR4802 20K/VR7
CW
R4814 10K/J3
R4817 PAT/J3
C4815 PAT/UBV
R4820 39K/J3
R4822 PAT/J3
REC_CURR
R4829 8200/J3
TP4801 EYF6CU
R4826 3900/J3
C4820 1/UBM
+9V
R4835 18K/RE7
IC4804 CXA1552M-T4
RECIN2 RECIN1
VCC GND
PB_IN2 PB_IN1
VCC/2 IREF
NR_SW MODE_SW
LINE_O2 LINE_O1
TC2 TC1
REC_O2 REC_O1
R4842 10K/J3
C4828 1/UBM
C4825 1/UBM
C4824 35V0R1/ST
R4840 10K/J3
C4822 0.1/UFN
C4823 6V47/EHB
C4821 1/UBM
R4836 1000/J3
(7) CUE_PB/REC_N
(9) CUE_PB
(9) CUE_REC
(7, 9) CUE_PB/EE_N
(7) CUE_EE_PB_N
CUE_PB_IN (1)
CUE_PB_GND (1)
R4803 0/J3
R4805 2200/J3
R4806 PAT/J3
C4803 PAT/UBM
PB_LEVEL
VR4800 50K/VR7
R4808 33K/J3
R4809 4700/J3
IC4801 NJM4580V-TE1
C4805 0.39/UBM
C4806 0.39/UBM
R4813 1500/RE7
R4815 3900/RE7
C4809 0.1/UFV
C4810 0.1/UFV
C4812 0.1/HUB
C4814 0.1/HUB
C4816 0.1/HUB
R4819 1200/RE7
R4823 82K/RE7
C4817 0.1/HUB
VR4803 PAT/VR7
REF_F
R4825 10K/J3
R4827 1200/RE7
C4819 1/UBM
R4832 10K/J3
IC4802 NJM4580V-TE1
C4826 0.033/UBV
C4827 0.1/UBV
R4839 0/J3
R4837 22K/J3
R4838 10K/J3
R4841 0/J3
R4843 10K/J3
R4844 10K/J3
R4845 10K/J3
IC4807 THC4052FTEL
Y3 Y2 Y1 Y0 X3 X2 X1 X0 E B A Y X
IC4808 TC4W53FUTL
R4846 PAT/J3
R4847 2000/RE7
R4848 5600/J3
C4835 2200P/UBV
C4836 1000P/UBV
C4837 1/UBM
R4849 PAT/J3
R4850 2200/J6
R4851 3300/J3
R4852 2200/J3
(7) CUE_ATT0
(7) CUE_ATT1
+6V
IC4805 XC62FP5002PR
C4829 0.1/UFV
C4831 0.1/UFV
C4833 6V47/EHB
D4800 MA716-TX
GROUNDB
-6V
IC4806 XC62DN5002PL
C4830 0.1/UFV
C4832 0.1/UFV
C4834 6V47/EHB
+12V
IC4809 NJM78L09UAT2
C4838 PAT/16V22/EHB
C4839 0.1/UFV
C4840 0.1/UFV
C4841 16V22/EHB
IC4807 THC4052FTEL
VCC VEE VSS
R4853 0/J3
GND5 GROUNDB
C_PS9
VR4801 PAT/VR7
R4816 PAT/J3
R4818 PAT/J3
C4811 PAT/UBM
C4813 PAT/HUB
CYL_FG+ (1)
C4800 PAT/UBM
R4800 PAT/J3
R4801 PAT/J3
R4802 PAT/J3
R4804 PAT/J3
C4801 PAT/UBV
C4802 PAT/UBV
IC4813 PAT/NJM4580V-TE1
R4807 PAT/J3
R4810 PAT/J3
C4804 PAT/UBV
C4808 PAT/UBV
R4821 PAT/J3
IC4814 PAT/NJM4580V-TE1
R4824 PAT/J3
C4818 PAT/UBV
R4828 PAT/J3
VR4804 PAT/VR7
C_LV9
R4830 PAT/J3
R4831 PAT/J3
R4833 PAT/J3
R4834 PAT/J3

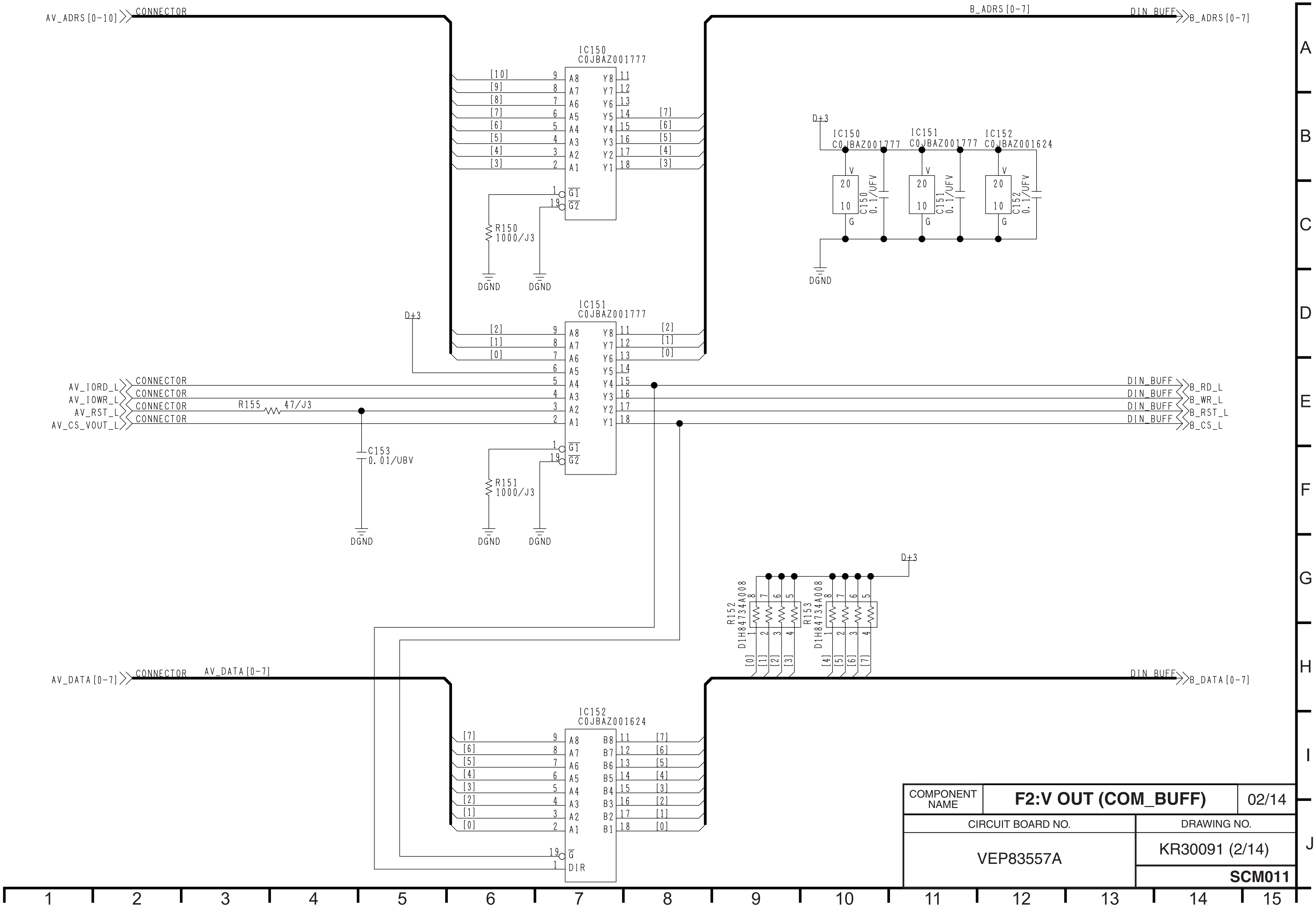
COMPONENT NAME	F1:AUDIO (CUE_R/P)	08/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (8/9)	
	SCM008	


CUE_PB/EE_N
(7, 8)
CUE_PB
(8)
CUE_PB_OUT
(4, 5)
R4900
2200/J3
IC4900
NJM4580V-TE1
R4901
12K/J3
GND5
R4902
12K/J3
+5VC_1
R4904
2700/J3
R4906
470/J3
IC4900
NJM4580V-TE1
-5VC_1
R4907
10K/J3
IC4901
TC4W53FUTL
+5VC_1
-5VC_1
R4913
10K/RE7
IC4905
NJM4580V-TE1
IC4907
THC4052FTEL
Y3
Y2
Y1
Y0
X3
X2
X1
X0
E
B
A
R4924 6800/J3
R4925 390/J3
R4926 150/J3
R4927 2000/J3
R4928 6800/J3
R4929 680/J3
R4930 470/J3
R4931 470/J3
R4933 8200/J3
R4934 12K/J3
R4935 15K/J3
R4936 4700/J3
R4937 3300/J3
R4938 2200/J3
TP4901
EYF6CU
R4940
0/J3
R4941
10K/J3
C4901
PAT/UFV
C4902
PAT/UFV
IC4907
THC4052FTEL
VCC
VEE
VSS
0.1/UFV
C4906
0.1/UFV
C4907
IC4905
NJM4580V-TE1
R4917
27K/RE7
(2, 4, 7)
REF_SEL_1
(2, 4, 7)
REF_SEL_0
D4901
MA157-TX
+3V
+5V
IC4903
XC62FP3302PR
C4913
6V47/EHB
C4914
0.1/UFV
C4915
0.1/UFN
C4908
1/UBM
C4910
1/UBM
R4942
470/J3
R4939
10K/J3
C4909
0.1/UFN
C4911
16V10/EHB
2200P/UBV
C4912
TP4900
PAT/EYF6CU
IC4902
AK4550VT
VCOM
AINR
AINL
VSS
VDD
DEM0
DEM1
SDT0
AOUTR
AOUTL
PWDA
PWAD
SDLK
MCLK
LRCK
SDTI
R4944
1000/J3
R4943
1000/J3
R4946
56K/J6
DGND
(7)
P_DOWN_L
(3)
BCK_3
(3)
MCK_3
(3)
WCK_3
(1)
CUE_MIX_DATA
C4916
PAT/UV
R4945
D1H84704A008
(1)
CUE_MET_DATA
CUE_REC
(8)
+5VC_1
R4903
9100/RE7
IC4904
NJM4580V-TE1
-5VC_1
R4905
10K/J3
C4900
1/UBM
R4908
10K/J3
R4910
27K/RE7
R4912
120K/RE7
IC4904
NJM4580V-TE1
R4914
12K/RE7
R4916
12K/J3
R4919
47/J3
R4922
8200/RE7
R4932
6800/RE7
IC4906
NJM4580V-TE1
IC4906
NJM4580V-TE1
C4903
1/UBM
R4909
1800/J3
R4911
9100/J3
R4915
10K/J3
R4918
47K/J3
D4900
MA152A-TX
R4920
100/J6
Q4900
2SD1328-TX
R4921
100K/J3
C4904
16V22/EHB
R4923
10K/J3
C4905
16V10/EHB
Q4901
2SD1328-TX
Q4902
2SD1328-TX

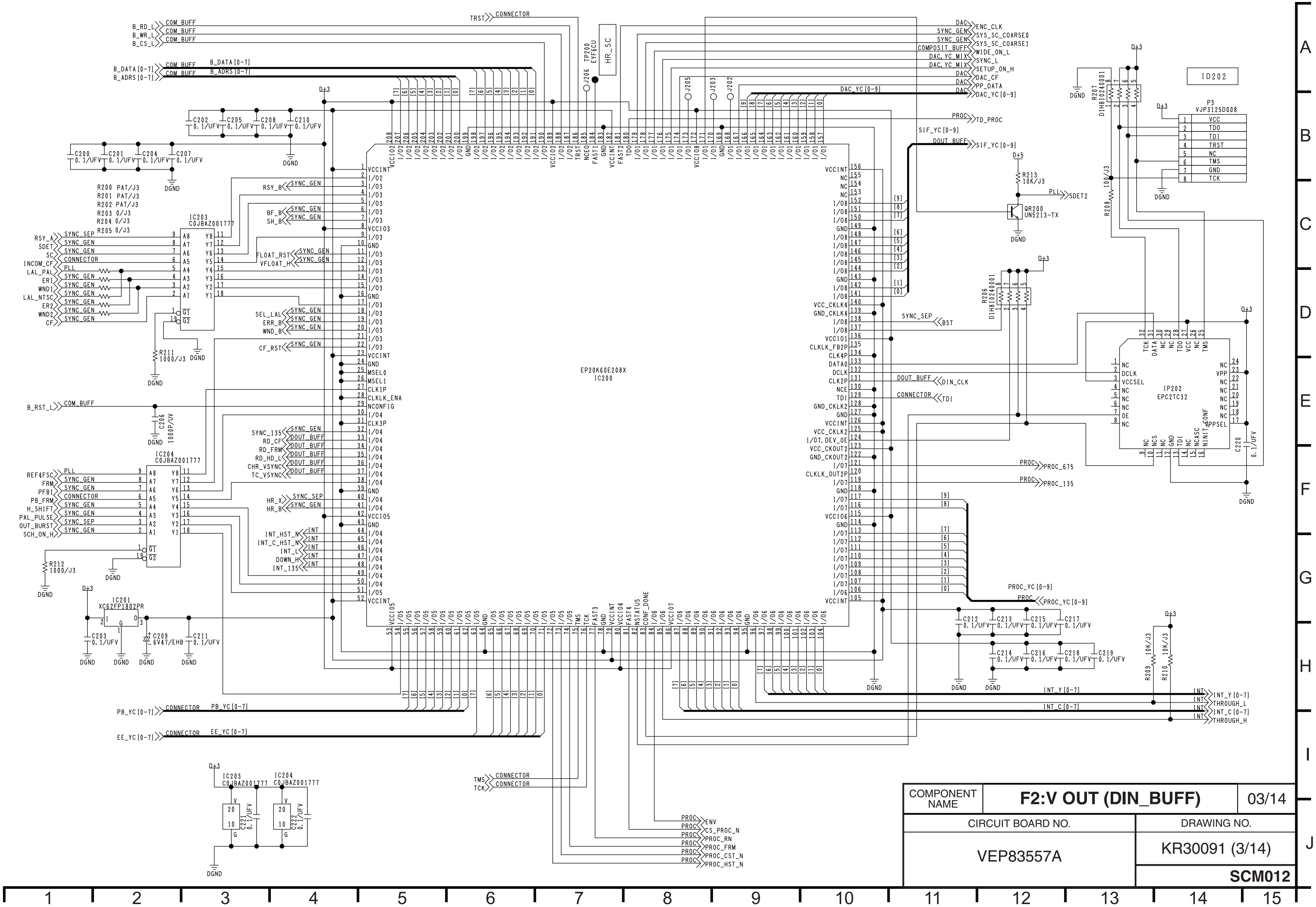
COMPONENT NAME	F1:AUDIO (CUE_INPUT)	09/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (9/9)	
	SCM009	


A+6
A-6
AGND
SYNC_SEP
REF_12V
DGND
P1 K1KA96B00032
P2 K1KA96B00032
1A GND
2A +12
3A -12
4A +6V
5A -6V
6A
7A V1_G
8A V2
9A YCC_G
10A YCY
11A PB_G
12A PR
13A GND
14A REF_CLK_SDI
15A SDI_YC[2]
16A SDI_YC[5]
17A SDI_YC[8]
23A AV_ADRS[9]
24A AV_ADRS[6]
25A AV_ADRS[3]
26A AV_ADRS[0]
27A AV_RST_L
28A AV_DATA[5]
29A AV_DATA[2]
30A +3.3V
31A +5V
32A GND
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
7B V1
8B V3_G
9B YCC
10B Y_G
11B PB
12B REF_G
13B GND
14B SDI_YC[0]
15B SDI_YC[3]
16B SDI_YC[6]
17B SDI_YC[9]
19B SC_ADJ
22B AV_CS_VOUT_L
23B AV_ADRS[8]
24B AV_ADRS[5]
25B AV_ADRS[2]
26B AV_IORD_L
27B AV_DATA[7]
28B AV_DATA[4]
29B AV_DATA[1]
30B +3.3V
31B +5V
32B GND
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
7C V2_G
8C V3
9C YCY_G
10C Y
11C PR_G
12C REF
13C GND
14C SDI_YC[1]
15C SDI_YC[4]
16C SDI_YC[7]
19C SC_GND
21C INCOM_CF
22C AV_ADRS[10]
23C AV_ADRS[7]
24C AV_ADRS[4]
25C AV_ADRS[1]
26C AV_IOWR_L
27C AV_DATA[6]
28C AV_DATA[3]
29C AV_DATA[0]
30C +3.3V
31C +5V
32C GND
COMPOSITE_BUFF
COMPONENT_BUFF
DOUT_BUFF
COM_BUFF
PLL
DIN_BUFF
SDI_YC[0-9]
AV_DATA[0-7]
AV_ADRS[0-10]
10A SYS_OUT_FRM
11A CHR_CLK
12A CHR_GATE_H
13A ENC_DATA
14A EE_YC[0]
15A EE_YC[3]
16A EE_YC[6]
17A REF_CLK27
18A REF_HD
19A PB_YC[2]
20A PB_YC[5]
21A PB_FRM
DAC
10B TC_CSYNC_L
11B CHR_VSYNC_L
12B CHR_DATA_H
13B LTC_CLK
14B EE_YC[1]
15B EE_YC[4]
16B EE_YC[7]
17B REF_CF
18B PB_YC[0]
19B PB_YC[3]
20B PB_YC[6]
21B GND
10C TC_VSYNC_L
11C CHR_HSYNC_L
12C ENC_CLK_NC
14C EE_YC[2]
15C EE_YC[5]
17C REF_FRM
18C PB_YC[1]
19C PB_YC[4]
20C PB_YC[7]
J105
PB_YC[0-7]
EE_YC[0-7]
L100 VLF151A132T
L101 VLF151A132T
D+3
D+5
C104 6V100/EHB
C105 0.1/UFV
C106 6V100/EHB
C107 0.1/UFV
JP100
JP101
JP102
JP103
J100 J101 J102 J103 J104
R100 D1H810240001
PROC
DIN_BUFF, PROC
TDO
TDI
TMS
TCK
TRST

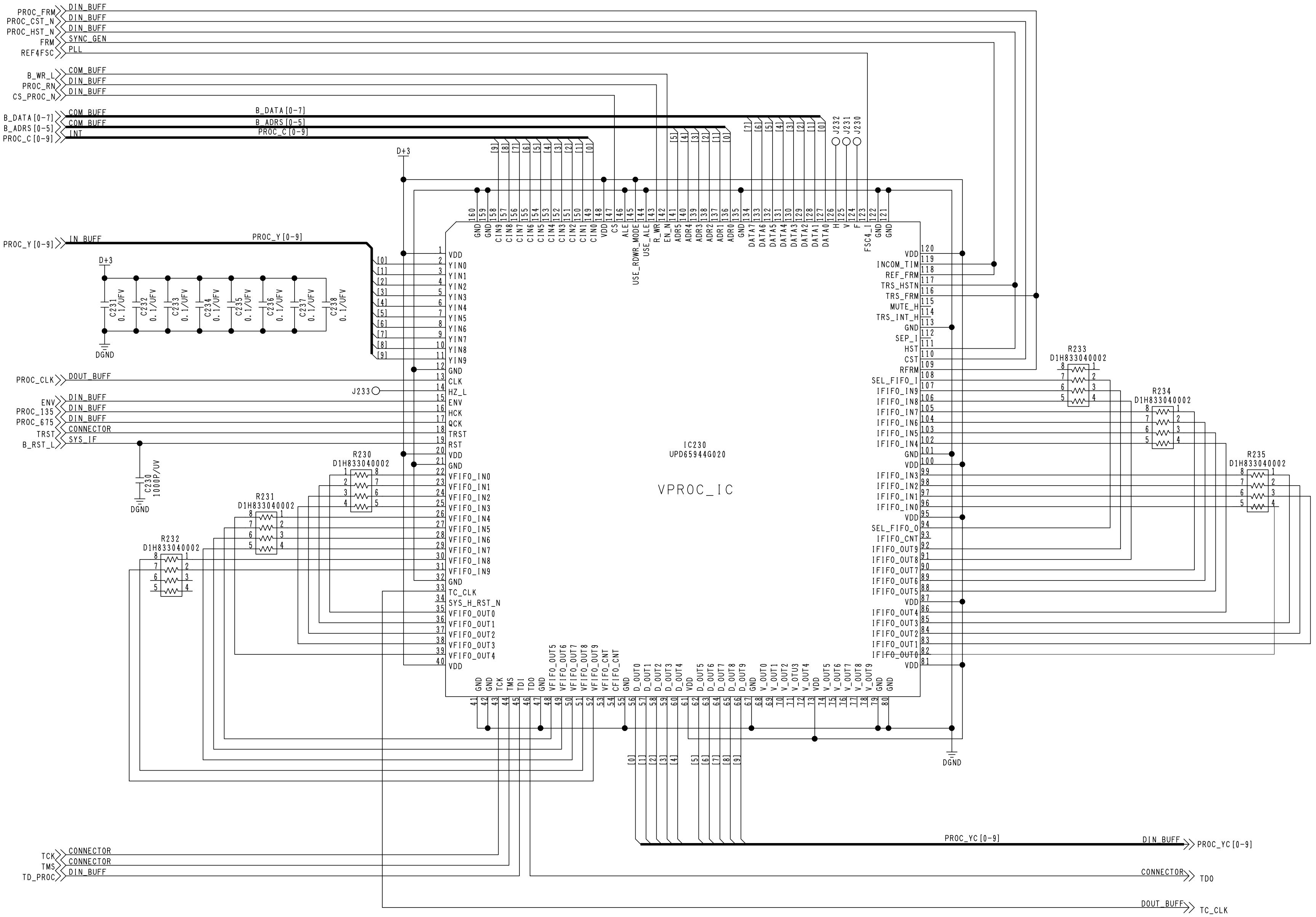
COMPONENT NAME	F2:V OUT (CONNECTOR)	01/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (1/14)	
	SCM010	


AV_ADRS[0-10]
CONNECTOR
B_ADRS[0-7]
DIN_BUFF
B_ADRS[0-7]
IC150
C0JBAZ001777
[10] [9] [8] [7] [6] [5] [4] [3]
A8 A7 A6 A5 A4 A3 A2 A1
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
[7] [6] [5] [4] [3]
G1 G2
R150
1000/J3
DGND
IC151
C0JBAZ001777
D+3
[2] [1] [0]
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_CS_VOUT_L
R155
47/J3
C153
0.01/UBV
R151
1000/J3
B_RD_L
B_WR_L
B_RST_L
B_CS_L
IC150
C0JBAZ001777
IC151
C0JBAZ001777
IC152
C0JBAZ001624
V
20
10
G
C150
0.1/UFV
C151
0.1/UFV
C152
0.1/UFV
R152
D1H84734A008
R153
D1H84734A008
AV_DATA[0-7]
AV_DATA[0-7]
B_DATA[0-7]
IC152
C0JBAZ001624
B8 B7 B6 B5 B4 B3 B2 B1
G
DIR
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J

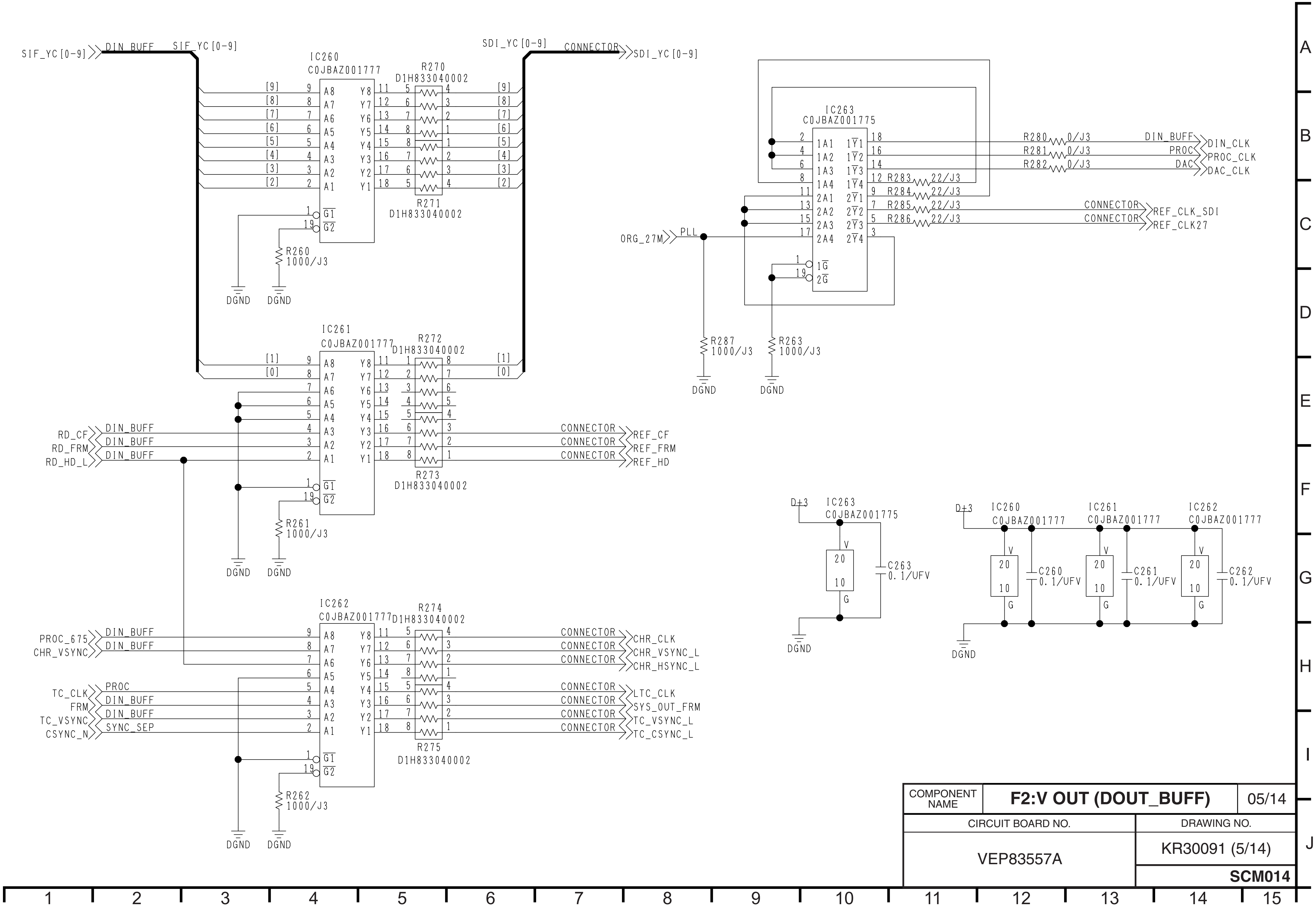
COMPONENT NAME	F2:V OUT (COM_BUFF)	02/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (2/14)	
	SCM011	


EP20K60E208X
IC200
IC203 C0JBAZ001777
IC204 C0JBAZ001777
IC201 XC62FP1802PR
IP202 EPC2TC32
P3 VJP3125D008
QR200 UN5213-TX
R206 D1H81024000l
R207 D1H81024000l
R213 10K/J3
R208 100/J3
R209 10K/J3
R210 10K/J3
R211 1000/J3
R212 1000/J3
R200 PAT/J3
R201 PAT/J3
R202 PAT/J3
R203 0/J3
R204 0/J3
R205 0/J3
C200 0.1/UFV
C201 0.1/UFV
C204 0.1/UFV
C207 0.1/UFV
C202 0.1/UFV
C205 0.1/UFV
C208 0.1/UFV
C210 0.1/UFV
C206 1000P/UV
C203 0.1/UFV
C209 6V47/EHB
C211 0.1/UFV
C212 0.1/UFV
C213 0.1/UFV
C215 0.1/UFV
C217 0.1/UFV
C214 0.1/UFV
C216 0.1/UFV
C218 0.1/UFV
C219 0.1/UFV
C220 0.1/UFV
C221 0.1/UFV
C222 0.1/UFV
TP200 EYF6CU
HR_SC
ID202
J206
J205
J203
J202
D+3
D+5
DGND
B_RD_L COM_BUFF
B_WR_L COM_BUFF
B_CS_L COM_BUFF
B_DATA[0-7] COM_BUFF
B_ADRS[0-7] COM_BUFF
TRST CONNECTOR
DAC ENC_CLK
SYNC_GEN SYS_SC_COARSE0
SYNC_GEN SYS_SC_COARSE1
COMPOSIT_BUFF WIDE_ON_L
DAC,YC_MIX SYNC_L
DAC,YC_MIX SETUP_ON_H
DAC DAC_CF
DAC PP_DATA
DAC DAC_YC[0-9]
PROC TD_PROC
SIF_YC[0-9]
DOUT_BUFF SIF_YC[0-9]
PLL SDET2
SYNC_SEP BST
DOUT_BUFF DIN_CLK
CONNECTOR TDI
PROC PROC_675
PROC PROC_135
PROC_YC[0-9]
PROC PROC_YC[0-9]
INT_Y[0-7]
INT INT_Y[0-7]
INT THROUGH_L
INT_C[0-7]
INT INT_C[0-7]
INT THROUGH_H
PB_YC[0-7] CONNECTOR
EE_YC[0-7] CONNECTOR
TMS CONNECTOR
TCK CONNECTOR
PROC ENV
PROC CS_PROC_N
PROC PROC_RN
PROC PROC_FRM
PROC PROC_CST_N
PROC PROC_HST_N
RSY_B SYNC_GEN
BF_B SYNC_GEN
SH_B SYNC_GEN
FLOAT_RST SYNC_GEN
VFLOAT_H SYNC_GEN
SEL_LAL SYNC_GEN
ERR_B SYNC_GEN
WND_B SYNC_GEN
CF_RST SYNC_GEN
B_RST_L COM_BUFF
SYNC_135 SYNC_GEN
RD_CF DOUT_BUFF
RD_FRM DOUT_BUFF
RD_HD_L DOUT_BUFF
CHR_VSYNC DOUT_BUFF
TC_VSYNC DOUT_BUFF
HR_X SYNC_SEP
HR_B SYNC_GEN
INT_HST_N INT
INT_C_HST_N INT
INT_L INT
DOWN_H INT
INT_135 INT
RSY_A SYNC_SEP
SDET SYNC_GEN
SC SYNC_GEN
INCOM_CF CONNECTOR
LAL_PAL PLL
ER1 SYNC_GEN
WND1 SYNC_GEN
LAL_NTSC SYNC_GEN
ER2 SYNC_GEN
WND2 SYNC_GEN
CF SYNC_GEN
REF4FSC PLL
FRM SYNC_GEN
PFB1 SYNC_GEN
PB_FRM CONNECTOR
H_SHIFT SYNC_GEN
PAL_PULSE SYNC_GEN
OUT_BURST SYNC_SEP
SCH_ON_H SYNC_GEN
VCC TDO TDI TRST NC TMS GND TCK
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	F2:V OUT (DIN_BUFF)	03/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (3/14)	
	SCM012	


PROC_FRM DIN_BUFF
PROC_CST_N DIN_BUFF
PROC_HST_N DIN_BUFF
FRM SYNC_GEN
REF4FSC PLL
B_WR_L COM_BUFF
PROC_RN DIN_BUFF
CS_PROC_N DIN_BUFF
B_DATA[0-7] COM_BUFF
B_ADRS[0-5] COM_BUFF
PROC_C[0-9] INT
B_DATA[0-7]
B_ADRS[0-5]
PROC_C[0-9]
J232
J231
J230
D+3
PROC_Y[0-9] IN_BUFF
PROC_Y[0-9]
C231 0.1/UFV
C232 0.1/UFV
C233 0.1/UFV
C234 0.1/UFV
C235 0.1/UFV
C236 0.1/UFV
C237 0.1/UFV
C238 0.1/UFV
DGND
PROC_CLK DOUT_BUFF
J233
ENV DIN_BUFF
PROC_135 DIN_BUFF
PROC_675 DIN_BUFF
TRST CONNECTOR
B_RST_L SYS_IF
C230 1000P/UV
R230 D1H833040002
R231 D1H833040002
R232 D1H833040002
R233 D1H833040002
R234 D1H833040002
R235 D1H833040002
IC230
UPD65944G020
VPROC_IC
1 VDD
2 YIN0
3 YIN1
4 YIN2
5 YIN3
6 YIN4
7 YIN5
8 YIN6
9 YIN7
10 YIN8
11 YIN9
12 GND
13 CLK
14 HZ_L
15 ENV
16 HCK
17 QCK
18 TRST
19 RST
20 VDD
21 GND
22 VFIFO_IN0
23 VFIFO_IN1
24 VFIFO_IN2
25 VFIFO_IN3
26 VFIFO_IN4
27 VFIFO_IN5
28 VFIFO_IN6
29 VFIFO_IN7
30 VFIFO_IN8
31 VFIFO_IN9
32 GND
33 TC_CLK
34 SYS_H_RST_N
35 VFIFO_OUT0
36 VFIFO_OUT1
37 VFIFO_OUT2
38 VFIFO_OUT3
39 VFIFO_OUT4
40 VDD
41 GND
42 GND
43 TCK
44 TMS
45 TDI
46 TDO
47 GND
48 VFIFO_OUT5
49 VFIFO_OUT6
50 VFIFO_OUT7
51 VFIFO_OUT8
52 VFIFO_OUT9
53 VFIFO_CNT
54 CFIFO_CNT
55 GND
56 D_OUT0
57 D_OUT1
58 D_OUT2
59 D_OUT3
60 D_OUT4
61 VDD
62 D_OUT5
63 D_OUT6
64 D_OUT7
65 D_OUT8
66 D_OUT9
67 GND
68 V_OUT0
69 V_OUT1
70 V_OUT2
71 V_OTU3
72 V_OUT4
73 VDD
74 V_OUT5
75 V_OUT6
76 V_OUT7
77 V_OUT8
78 V_OUT9
79 GND
80 GND
81 VDD
82 IFIFO_OUT0
83 IFIFO_OUT1
84 IFIFO_OUT2
85 IFIFO_OUT3
86 IFIFO_OUT4
87 VDD
88 IFIFO_OUT5
89 IFIFO_OUT6
90 IFIFO_OUT7
91 IFIFO_OUT8
92 IFIFO_OUT9
93 IFIFO_CNT
94 SEL_FIFO_O
95 VDD
96 IFIFO_IN0
97 IFIFO_IN1
98 IFIFO_IN2
99 IFIFO_IN3
100 VDD
101 GND
102 IFIFO_IN4
103 IFIFO_IN5
104 IFIFO_IN6
105 IFIFO_IN7
106 IFIFO_IN8
107 IFIFO_IN9
108 SEL_FIFO_I
109 RFRM
110 CST
111 HST
112 SEP_I
113 GND
114 TRS_INT_H
115 MUTE_H
116 TRS_FRM
117 TRS_HSTN
118 REF_FRM
119 INCOM_TIM
120 VDD
121 GND
122 GND
123 FSC4_I
124 F
125 V
126 H
127 DATA0
128 DATA1
129 DATA2
130 DATA3
131 DATA4
132 DATA5
133 DATA6
134 DATA7
135 GND
136 ADR0
137 ADR1
138 ADR2
139 ADR3
140 ADR4
141 ADR5
142 EN_N
143 R_WR
144 USE_ALE
145 USE_RDWR_MODE
146 ALE
147 CS
148 VDD
149 CIN0
150 CIN1
151 CIN2
152 CIN3
153 CIN4
154 CIN5
155 CIN6
156 CIN7
157 CIN8
158 CIN9
159 GND
160 GND
PROC_YC[0-9]
DIN_BUFF PROC_YC[0-9]
CONNECTOR TDO
DOUT_BUFF TC_CLK
TCK CONNECTOR
TMS CONNECTOR
TD_PROC DIN_BUFF

COMPONENT NAME	F2:V OUT (PROC)	04/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557A		KR30091 (4/14)
		SCM013


SIF_YC[0-9]
DIN_BUFF
SIF_YC[0-9]
SDI_YC[0-9]
CONNECTOR
SDI_YC[0-9]
IC260
C0JBAZ001777
R270
D1H833040002
R271
D1H833040002
R260
1000/J3
DGND
IC261
C0JBAZ001777
R272
D1H833040002
R273
D1H833040002
R261
1000/J3
RD_CF
RD_FRM
RD_HD_L
REF_CF
REF_FRM
REF_HD
IC262
C0JBAZ001777
R274
D1H833040002
R275
D1H833040002
R262
1000/J3
PROC_675
CHR_VSYNC
TC_CLK
FRM
TC_VSYNC
CSYNC_N
PROC
SYNC_SEP
CHR_CLK
CHR_VSYNC_L
CHR_HSYNC_L
LTC_CLK
SYS_OUT_FRM
TC_VSYNC_L
TC_CSYNC_L
IC263
C0JBAZ001775
R280 0/J3
R281 0/J3
R282 0/J3
DIN_BUFF
DIN_CLK
PROC
PROC_CLK
DAC
DAC_CLK
R283 22/J3
R284 22/J3
R285 22/J3
R286 22/J3
REF_CLK_SDI
REF_CLK27
ORG_27M
PLL
R287
1000/J3
R263
1000/J3
D+3
C263
0.1/UFV
C260
0.1/UFV
C261
0.1/UFV
C262
0.1/UFV
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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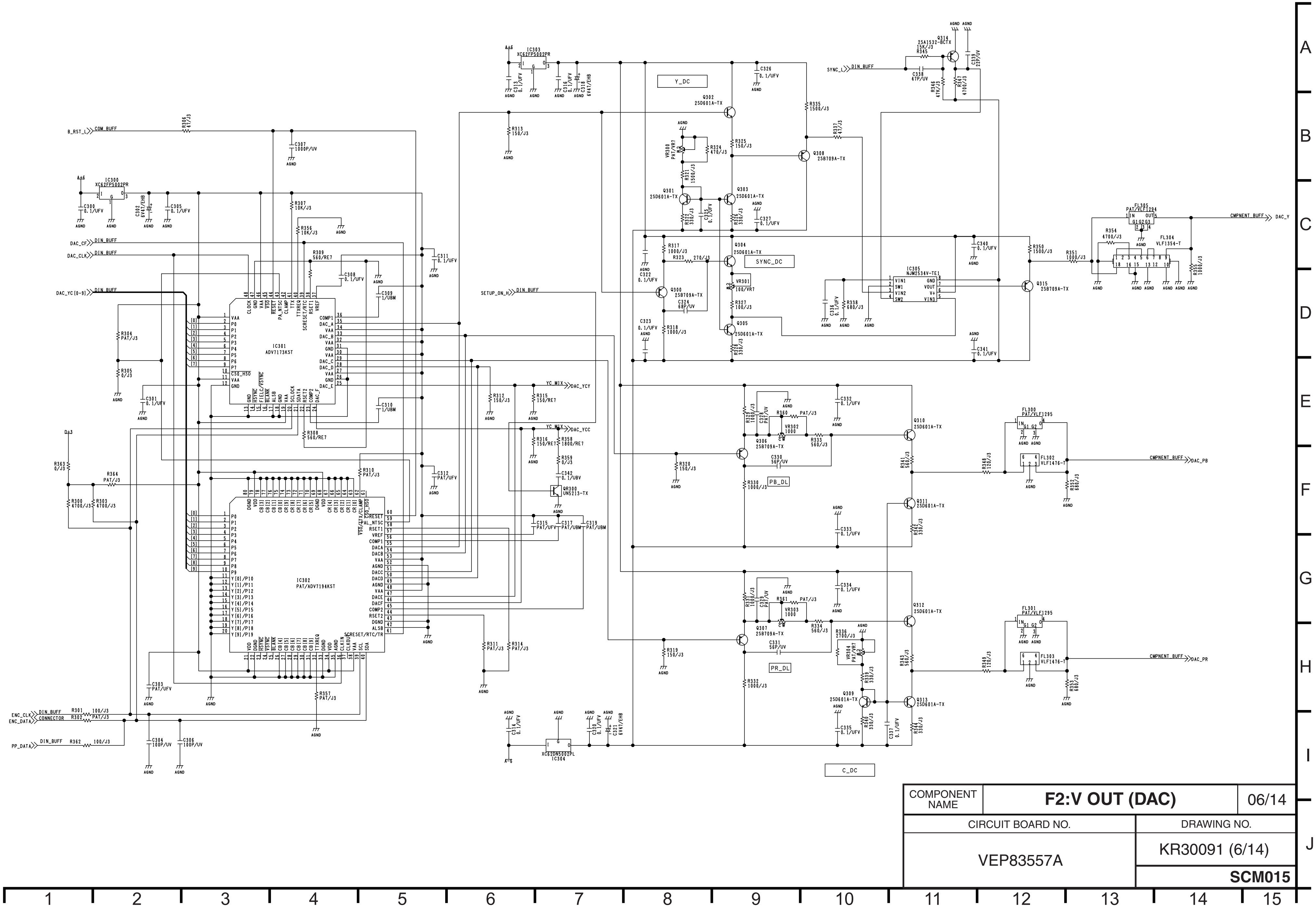
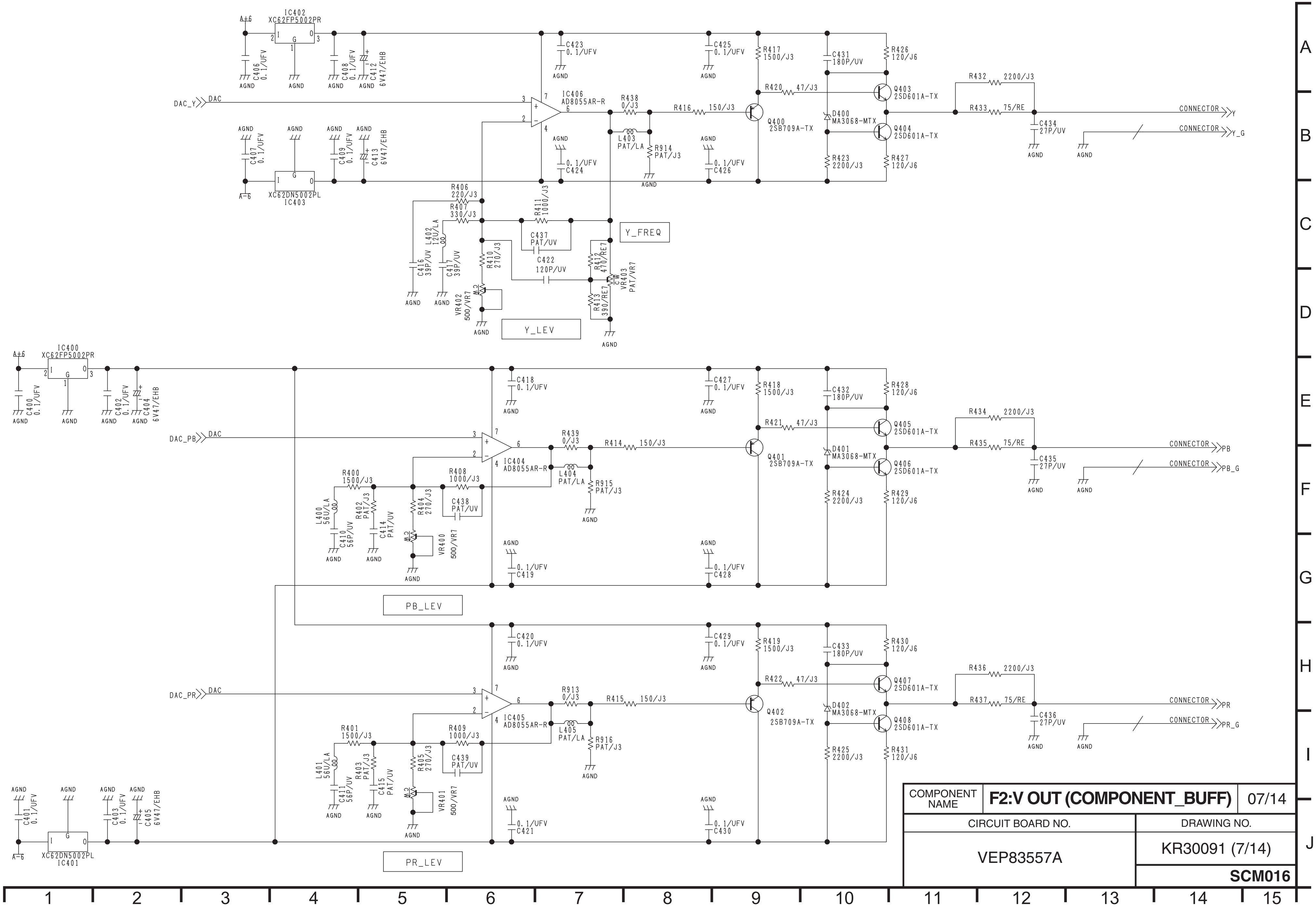
14
15

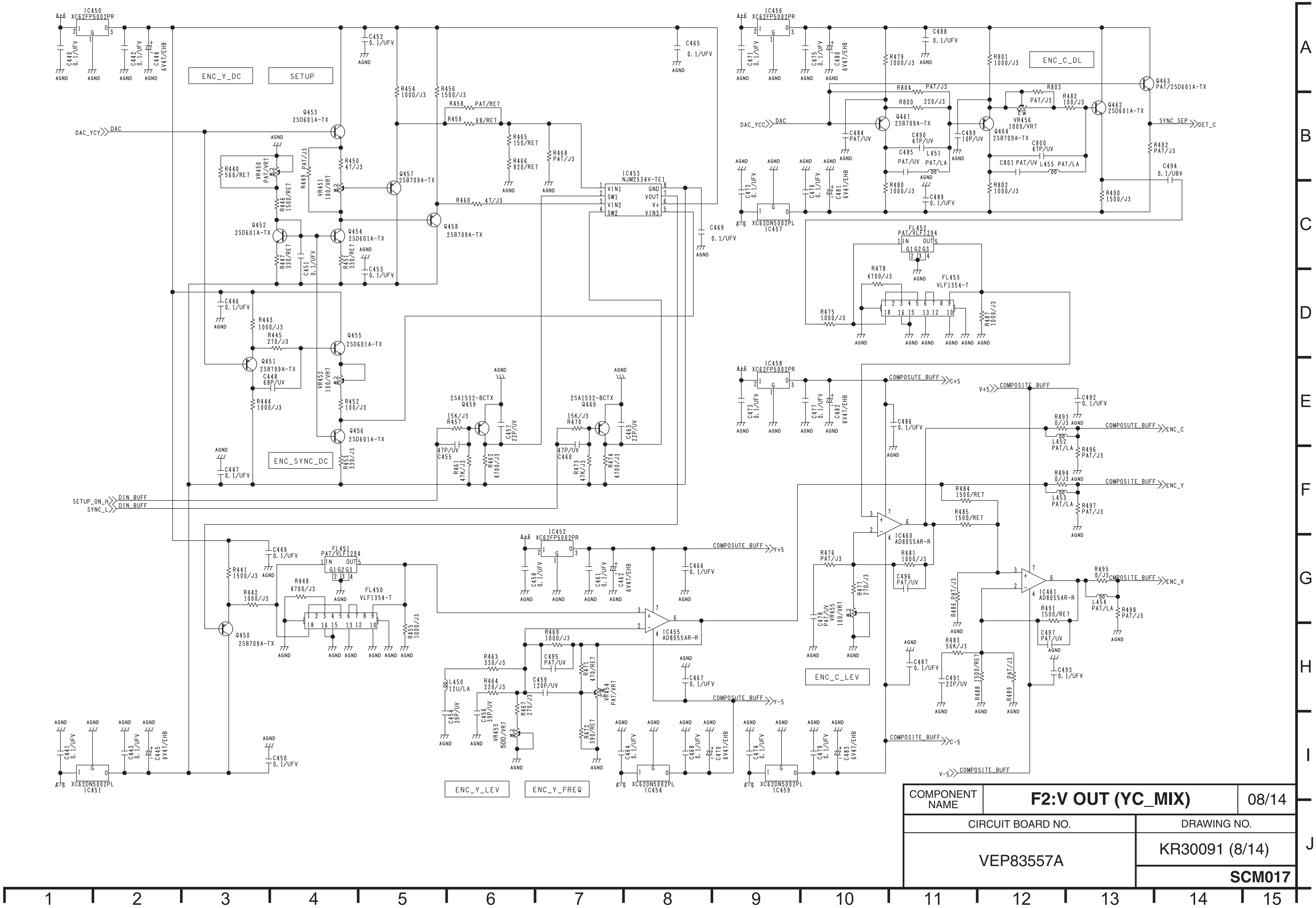
COMPONENT NAME	F2:V OUT (DOUT_BUFF)	05/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (5/14)	
	SCM014	


IC300 XC62FP5002PR
IC301 ADV7173KST
IC302 PAT/ADV7194KST
IC303 XC62FP5002PR
IC304 XC62DN5002PL
IC305 NJM2534V-TE1
B_RST_L COM_BUFF
DAC_CF DIN_BUFF
DAC_CLK DIN_BUFF
DAC_YC[0-9] DIN_BUFF
SETUP_ON_H DIN_BUFF
SYNC_L DIN_BUFF
ENC_CLK DIN_BUFF
ENC_DATA CONNECTOR
PP_DATA DIN_BUFF
YC_MIX DAC_YCY
YC_MIX DAC_YCC
Y_DC
SYNC_DC
PB_DL
PR_DL
C_DC
CMPNENT_BUFF DAC_Y
CMPNENT_BUFF DAC_PB
CMPNENT_BUFF DAC_PR
FL300 PAT/VLF1295
FL301 PAT/VLF1295
FL302 VLF1476-T
FL303 VLF1476-T
FL304 VLF1354-T
FL305 PAT/VLF1294
Q300 2SB709A-TX
Q301 2SD601A-TX
Q302 2SD601A-TX
Q303 2SD601A-TX
Q304 2SD601A-TX
Q305 2SD601A-TX
Q306 2SB709A-TX
Q307 2SB709A-TX
Q308 2SB709A-TX
Q309 2SD601A-TX
Q310 2SD601A-TX
Q311 2SD601A-TX
Q312 2SD601A-TX
Q313 2SD601A-TX
Q314 2SA1532-BCTX
Q315 2SB709A-TX
QR300 UN5213-TX
VR300 PAT/VR7
VR301 100/VR7
VR302 1000
VR303 1000
VR304 PAT/VR7
A+6
A-6
D+3
AGND
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J

COMPONENT NAME	F2:V OUT (DAC)	06/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (6/14)	
	SCM015	


A+6
IC402
XC62FP5002PR
C406 0.1/UFV
C408 0.1/UFV
C412 6V47/EHB
AGND
DAC_Y
DAC
IC406
AD8055AR-R
C423 0.1/UFV
R438 0/J3
R416 150/J3
Q400 2SB709A-TX
C425 0.1/UFV
R417 1500/J3
R420 47/J3
C431 180P/UV
D400 MA3068-MTX
R423 2200/J3
R426 120/J6
Q403 2SD601A-TX
Q404 2SD601A-TX
R427 120/J6
R432 2200/J3
R433 75/RE
C434 27P/UV
CONNECTOR Y
CONNECTOR Y_G
C407 0.1/UFV
C409 0.1/UFV
C413 6V47/EHB
IC403
XC62DN5002PL
A-6
L403 PAT/LA
R914 PAT/J3
C424 0.1/UFV
C426 0.1/UFV
R406 220/J3
R407 330/J3
R411 1000/J3
L402 12U/LA
C416 39P/UV
C417 39P/UV
C437 PAT/UV
C422 120P/UV
R410 270/J3
R412 470/RE7
R413 390/RE7
VR402 500/VR7
VR403 PAT/VR7
Y_FREQ
Y_LEV
IC400
XC62FP5002PR
C400 0.1/UFV
C402 0.1/UFV
C404 6V47/EHB
DAC_PB
IC404
AD8055AR-R
C418 0.1/UFV
C427 0.1/UFV
R418 1500/J3
R439 0/J3
R414 150/J3
L404 PAT/LA
R915 PAT/J3
Q401 2SB709A-TX
R421 47/J3
C432 180P/UV
D401 MA3068-MTX
R424 2200/J3
R428 120/J6
Q405 2SD601A-TX
Q406 2SD601A-TX
R429 120/J6
R434 2200/J3
R435 75/RE
C435 27P/UV
CONNECTOR PB
CONNECTOR PB_G
R400 1500/J3
R408 1000/J3
L400 56U/LA
R402 PAT/J3
R404 270/J3
C438 PAT/UV
C410 56P/UV
C414 PAT/UV
VR400 500/VR7
C419 0.1/UFV
C428 0.1/UFV
PB_LEV
DAC_PR
IC405
AD8055AR-R
C420 0.1/UFV
C429 0.1/UFV
R419 1500/J3
R913 0/J3
R415 150/J3
L405 PAT/LA
R916 PAT/J3
Q402 2SB709A-TX
R422 47/J3
C433 180P/UV
D402 MA3068-MTX
R425 2200/J3
R430 120/J6
Q407 2SD601A-TX
Q408 2SD601A-TX
R431 120/J6
R436 2200/J3
R437 75/RE
C436 27P/UV
CONNECTOR PR
CONNECTOR PR_G
R401 1500/J3
R409 1000/J3
L401 56U/LA
R403 PAT/J3
R405 270/J3
C439 PAT/UV
C411 56P/UV
C415 PAT/UV
VR401 500/VR7
C421 0.1/UFV
C430 0.1/UFV
PR_LEV
C401 0.1/UFV
C403 0.1/UFV
C405 6V47/EHB
IC401
XC62DN5002PL
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	F2:V OUT (COMPONENT_BUFF)	07/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (7/14)	
	SCM016	


IC450 XC62FP5002PR
IC451 XC62DN5002PL
IC452 XC62FP5002PR
IC453 NJM2534V-TE1
IC454 XC62DN5002PL
IC455 AD8055AR-R
IC456 XC62FP5002PR
IC457 XC62DN5002PL
IC458 XC62FP5002PR
IC459 XC62DN5002PL
IC460 AD8055AR-R
IC461 AD8055AR-R
Q450 2SB709A-TX
Q451 2SB709A-TX
Q452 2SD601A-TX
Q453 2SD601A-TX
Q454 2SD601A-TX
Q455 2SD601A-TX
Q456 2SD601A-TX
Q457 2SB709A-TX
Q458 2SB709A-TX
Q459 2SA1532-BCTX
Q460 2SA1532-BCTX
Q461 2SB709A-TX
Q462 2SD601A-TX
Q463 PAT/2SD601A-TX
Q464 2SB709A-TX
FL450 VLF1354-T
FL451 PAT/VLF1294
FL452 PAT/VLF1294
FL453 VLF1354-T
ENC_Y_DC
SETUP
ENC_SYNC_DC
ENC_Y_LEV
ENC_Y_FREQ
ENC_C_DL
ENC_C_LEV
DAC_YCY
DAC_YCC
DAC
SETUP_ON_H
SYNC_L
DIN_BUFF
SYNC_SEP
DET_C
COMPOSUTE_BUFF
COMPOSITE_BUFF
C+5
C-5
V+5
V-5
Y+5
Y-5
ENC_C
ENC_Y
ENC_V
A+6
A-6
AGND
VIN1 SW1 VIN2 SW2 GND VOUT V+ VIN3
A
B
C
D
E
F
G
H
I
J
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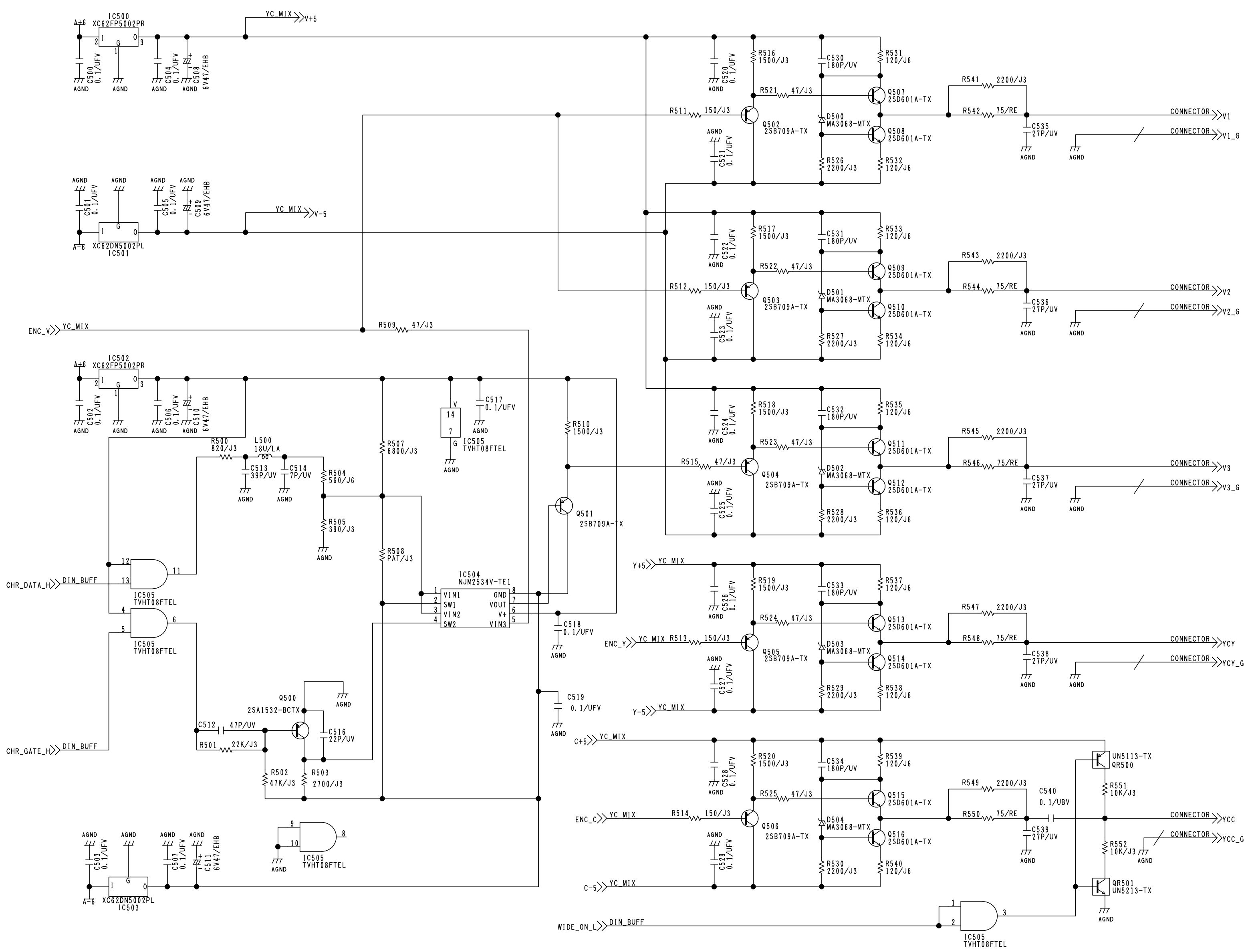
COMPONENT NAME	F2:V OUT (YC_MIX)	08/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (8/14)	
	SCM017	


A+6
IC500
XC62FP5002PR
C500 0.1/UFV
C504 0.1/UFV
C508 6V47/EHB
AGND
YC_MIX
V+5
C501 0.1/UFV
C505 0.1/UFV
C509 6V47/EHB
XC62DN5002PL
IC501
A-6
V-5
ENC_V
YC_MIX
R509 47/J3
IC502
XC62FP5002PR
C502 0.1/UFV
C506 0.1/UFV
C510 6V47/EHB
R500 820/J3
L500 18U/LA
C513 39P/UV
C514 7P/UV
R504 560/J6
R505 390/J3
R507 6800/J3
R508 PAT/J3
C517 0.1/UFV
IC505 TVHT08FTEL
R510 1500/J3
Q501 2SB709A-TX
IC504 NJM2534V-TE1
VIN1
SW1
VIN2
SW2
GND
VOUT
V+
VIN3
C518 0.1/UFV
C519 0.1/UFV
CHR_DATA_H
DIN_BUFF
CHR_GATE_H
Q500 2SA1532-BCTX
C512 47P/UV
R501 22K/J3
C516 22P/UV
R502 47K/J3
R503 2700/J3
C503 0.1/UFV
C507 0.1/UFV
C511 6V47/EHB
XC62DN5002PL
IC503
R511 150/J3
Q502 2SB709A-TX
C520 0.1/UFV
C521 0.1/UFV
R516 1500/J3
R521 47/J3
D500 MA3068-MTX
R526 2200/J3
C530 180P/UV
R531 120/J6
Q507 2SD601A-TX
Q508 2SD601A-TX
R532 120/J6
R541 2200/J3
R542 75/RE
C535 27P/UV
CONNECTOR V1
CONNECTOR V1_G
R512 150/J3
Q503 2SB709A-TX
C522 0.1/UFV
C523 0.1/UFV
R517 1500/J3
R522 47/J3
D501 MA3068-MTX
R527 2200/J3
C531 180P/UV
R533 120/J6
Q509 2SD601A-TX
Q510 2SD601A-TX
R534 120/J6
R543 2200/J3
R544 75/RE
C536 27P/UV
CONNECTOR V2
CONNECTOR V2_G
R515 47/J3
Q504 2SB709A-TX
C524 0.1/UFV
C525 0.1/UFV
R518 1500/J3
R523 47/J3
D502 MA3068-MTX
R528 2200/J3
C532 180P/UV
R535 120/J6
Q511 2SD601A-TX
Q512 2SD601A-TX
R536 120/J6
R545 2200/J3
R546 75/RE
C537 27P/UV
CONNECTOR V3
CONNECTOR V3_G
Y+5
ENC_Y
R513 150/J3
Q505 2SB709A-TX
C526 0.1/UFV
C527 0.1/UFV
R519 1500/J3
R524 47/J3
D503 MA3068-MTX
R529 2200/J3
C533 180P/UV
R537 120/J6
Q513 2SD601A-TX
Q514 2SD601A-TX
R538 120/J6
R547 2200/J3
R548 75/RE
C538 27P/UV
CONNECTOR YCY
CONNECTOR YCY_G
Y-5
C+5
ENC_C
R514 150/J3
Q506 2SB709A-TX
C528 0.1/UFV
C529 0.1/UFV
R520 1500/J3
R525 47/J3
D504 MA3068-MTX
R530 2200/J3
C534 180P/UV
R539 120/J6
Q515 2SD601A-TX
Q516 2SD601A-TX
R540 120/J6
R549 2200/J3
R550 75/RE
C540 0.1/UBV
C539 27P/UV
UN5113-TX QR500
R551 10K/J3
R552 10K/J3
QR501 UN5213-TX
CONNECTOR YCC
CONNECTOR YCC_G
C-5
WIDE_ON_L
IC505 TVHT08FTEL
A
B
C
D
E
F
G
H
I
J
1
2
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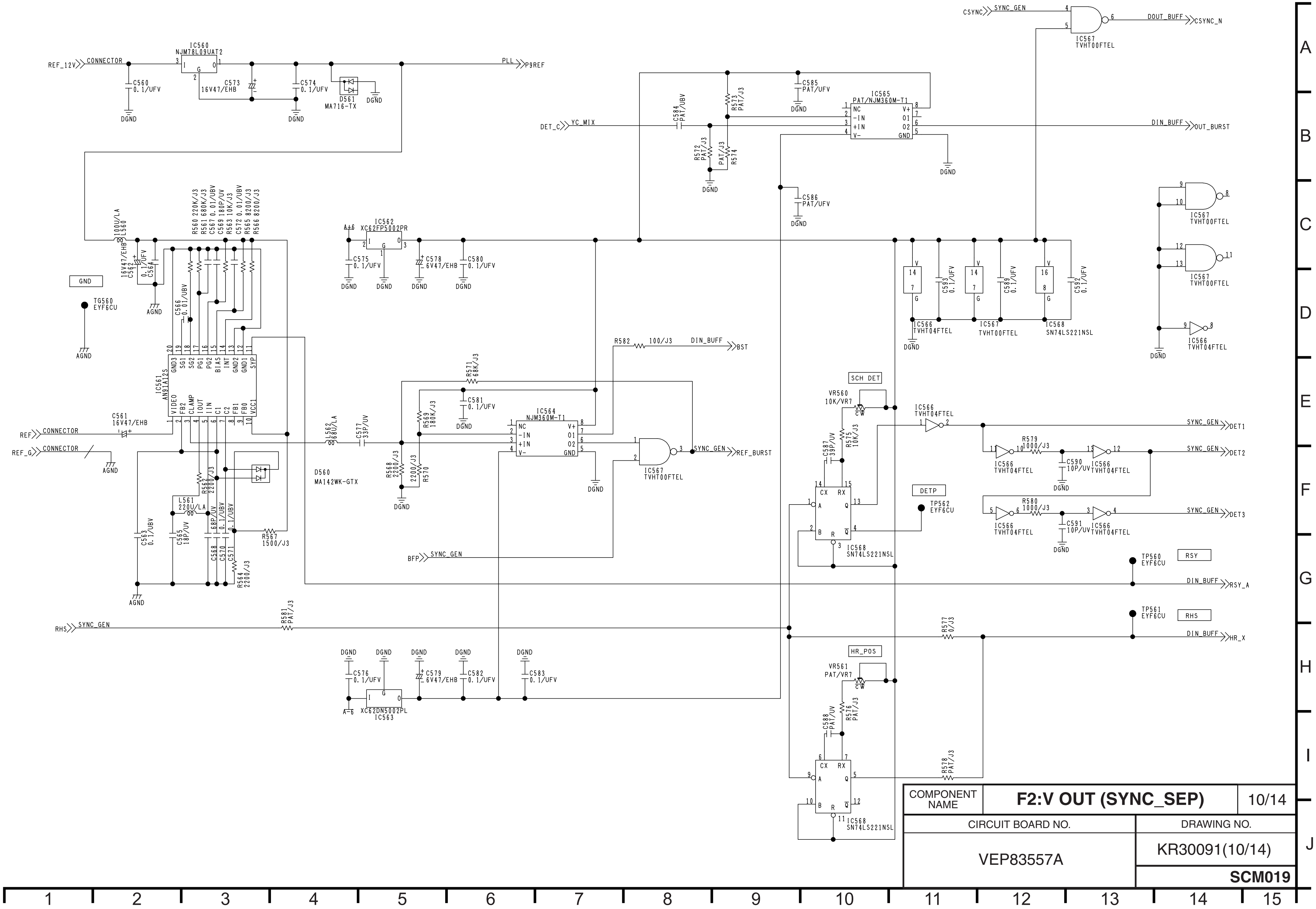
COMPONENT NAME	**F2:V OUT (COMPOSITE_BUFF)**	09/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (9/14)	
	SCM018	


REF_12V
CONNECTOR
IC560
NJM78L09UAT2
C560
0.1/UFV
DGND
C573
16V47/EHB
C574
0.1/UFV
D561
MA716-TX
PLL
P9REF
CSYNC
SYNC_GEN
IC567
TVHT00FTEL
DOUT_BUFF
CSYNC_N
C585
PAT/UFV
IC565
PAT/NJM360M-T1
NC
-IN
+IN
V-
V+
O1
O2
GND
R573
PAT/J3
C584
PAT/UBV
DET_C
YC_MIX
R572
PAT/J3
R574
DIN_BUFF
OUT_BURST
C586
PAT/UFV
L560
100U/LA
C562
16V47/EHB
C564
0.1/UFV
R560 220K/J3
R561 680K/J3
C567 0.01/UBV
C569 18P/UV
R563 10K/J3
C572 0.01/UBV
R565 8200/J3
R566 8200/J3
GND
TG560
EYF6CU
AGND
C566
0.01/UBV
IC561
AN91A12S
GND3
SG1
SG2
PG1
PG2
BIAS
INT
GND2
GND1
SYP
VIDEO
FB2
CLAMP
IOUT
IIN
C1
C2
FB1
FBO
VCC1
IC562
XC62FP5002PR
A+6
C575
0.1/UFV
C578
6V47/EHB
C580
0.1/UFV
IC566
TVHT04FTEL
IC568
SN74LS221NSL
C593
0.1/UFV
C589
0.1/UFV
C592
0.1/UFV
R582
100/J3
BST
R571
68K/J3
R569
180K/J3
C581
0.1/UFV
IC564
NJM360M-T1
SYNC_GEN
REF_BURST
C561
16V47/EHB
REF
REF_G
L562
68U/LA
C577
33P/UV
D560
MA142WK-GTX
R568
2200/J3
R570
2200/J3
R562
2200/J3
L561
220U/LA
C563
0.1/UBV
C565
18P/UV
C568
68P/UV
C570
0.1/UBV
C571
0.1/UBV
R567
1500/J3
R564
2200/J3
BFP
SCH DET
VR560
10K/VR7
CW
C587
39P/UV
R575
10K/J3
DET1
R579
1000/J3
C590
10P/UV
DET2
R580
1000/J3
C591
10P/UV
DET3
DETP
TP562
EYF6CU
CX
RX
A
B
R
Q
TP560
RSY
RSY_A
RHS
R581
PAT/J3
TP561
R577
0/J3
HR_X
HR_POS
VR561
PAT/VR7
C588
PAT/UV
R576
PAT/J3
R578
PAT/J3
C576
0.1/UFV
C579
6V47/EHB
C582
0.1/UFV
C583
0.1/UFV
IC563
XC62DN5002PL
A-6
A
B
C
D
E
F
G
H
I
J
1
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14
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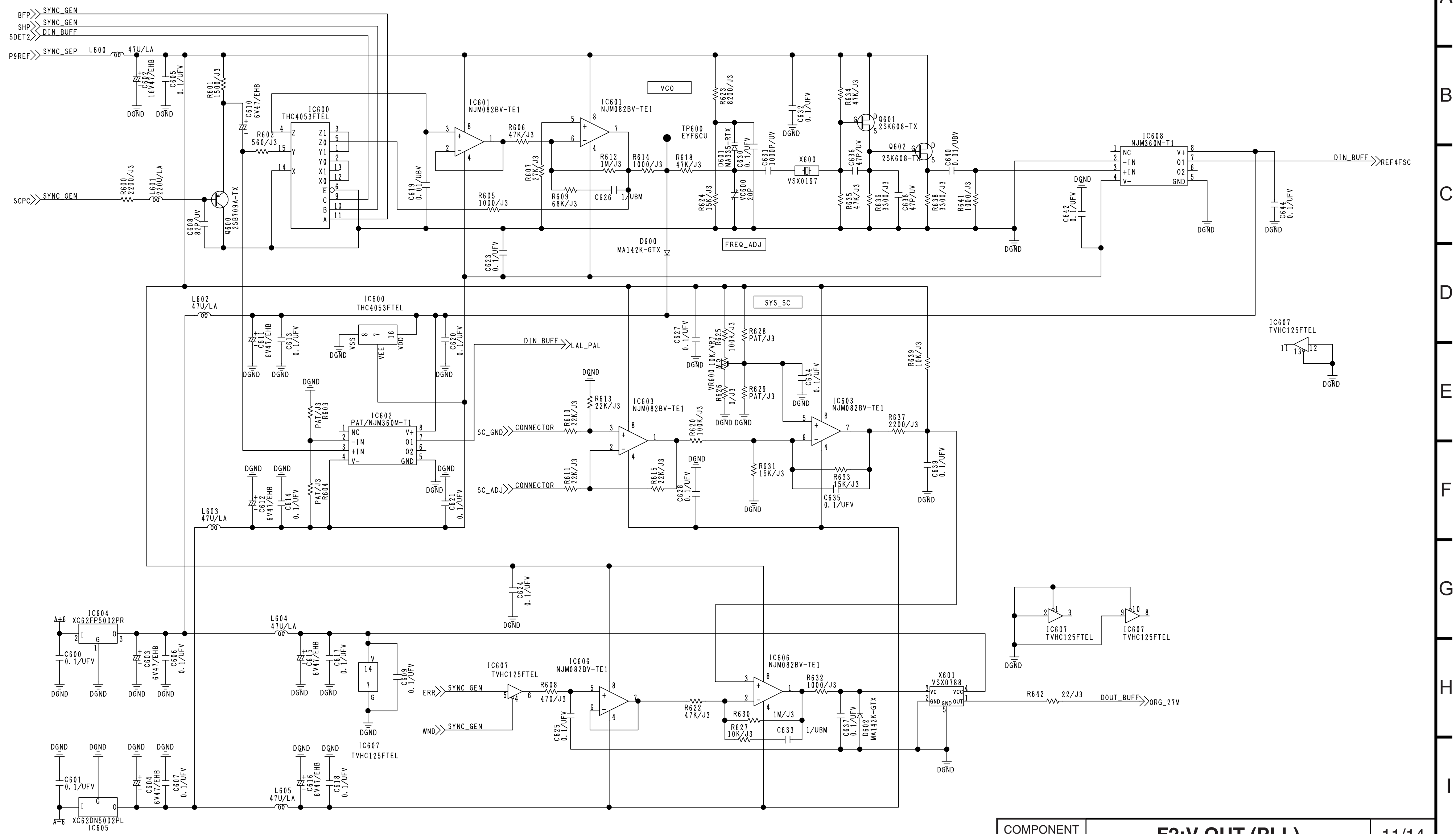
COMPONENT NAME	F2:V OUT (SYNC_SEP)	10/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091(10/14)	
	SCM019	


BFP SYNC_GEN
SHP SYNC_GEN
SDET2 DIN_BUFF
P9REF SYNC_SEP
L600 47U/LA
C602 16V47/EHB
C605 0.1/UFV
R601 1500/J3
C610 6V47/EHB
R602 560/J3
IC600 THC4053FTEL
IC601 NJM082BV-TE1
R606 47K/J3
R607 27K/J3
R609 68K/J3
C626 1/UBM
R612 1M/J3
R614 1000/J3
R618 47K/J3
R605 1000/J3
C619 0.01/UBV
C623 0.1/UFV
VCO
TP600 EYF6CU
D600 MA142K-GTX
R623 8200/J3
D601 MA335-RTX
C630 0.1/UFV
C631 1000P/UV
VC600 20P
R624 15K/J3
FREQ_ADJ
X600 VSX0197
C632 0.1/UFV
R634 47K/J3
Q601 2SK608-TX
Q602 2SK608-TX
C636 47P/UV
R635 47K/J3
R636 3300/J3
C638 47P/UV
R638 3300/J3
C640 0.01/UBV
R641 1000/J3
IC608 NJM360M-T1
C642 0.1/UFV
C644 0.1/UFV
DIN_BUFF REF4FSC
SCPC SYNC_GEN
R600 2200/J3
L601 2200U/LA
Q600 2SB709A-TX
C608 82P/UV
L602 47U/LA
C611 6V47/EHB
C613 0.1/UFV
C620 0.1/UFV
IC602 PAT/NJM360M-T1
R603 PAT/J3
R604 PAT/J3
C612 6V47/EHB
C614 0.1/UFV
C621 0.1/UFV
L603 47U/LA
DIN_BUFF LAL_PAL
SYS_SC
SC_GND CONNECTOR
SC_ADJ CONNECTOR
R610 22K/J3
R611 22K/J3
R613 22K/J3
IC603 NJM082BV-TE1
R620 100K/J3
R615 22K/J3
C628 0.1/UFV
C627 0.1/UFV
VR600 10K/VR7
R625 100K/J3
R626 0/J3
R628 PAT/J3
R629 PAT/J3
C634 0.1/UFV
R631 15K/J3
R633 15K/J3
C635 0.1/UFV
R637 2200/J3
R639 10K/J3
C639 0.1/UFV
IC607 TVHC125FTEL
C624 0.1/UFV
A+6
IC604 XC62FP5002PR
C600 0.1/UFV
C603 6V47/EHB
C606 0.1/UFV
L604 47U/LA
C615 6V47/EHB
C617 0.1/UFV
C609 0.1/UFV
ERR SYNC_GEN
WND SYNC_GEN
R608 470/J3
C625 0.1/UFV
IC606 NJM082BV-TE1
R622 47K/J3
R630 1M/J3
R627 10K/J3
C633 1/UBM
R632 1000/J3
C637 0.1/UFV
D602 MA142K-GTX
X601 VSX0788
R642 22/J3
DOUT_BUFF ORG_27M
C601 0.1/UFV
IC605 XC62DN5002PL
A-6
C604 6V47/EHB
C607 0.1/UFV
L605 47U/LA
C616 6V47/EHB
C618 0.1/UFV
DGND
A
B
C
D
E
F
G
H
I
J
1
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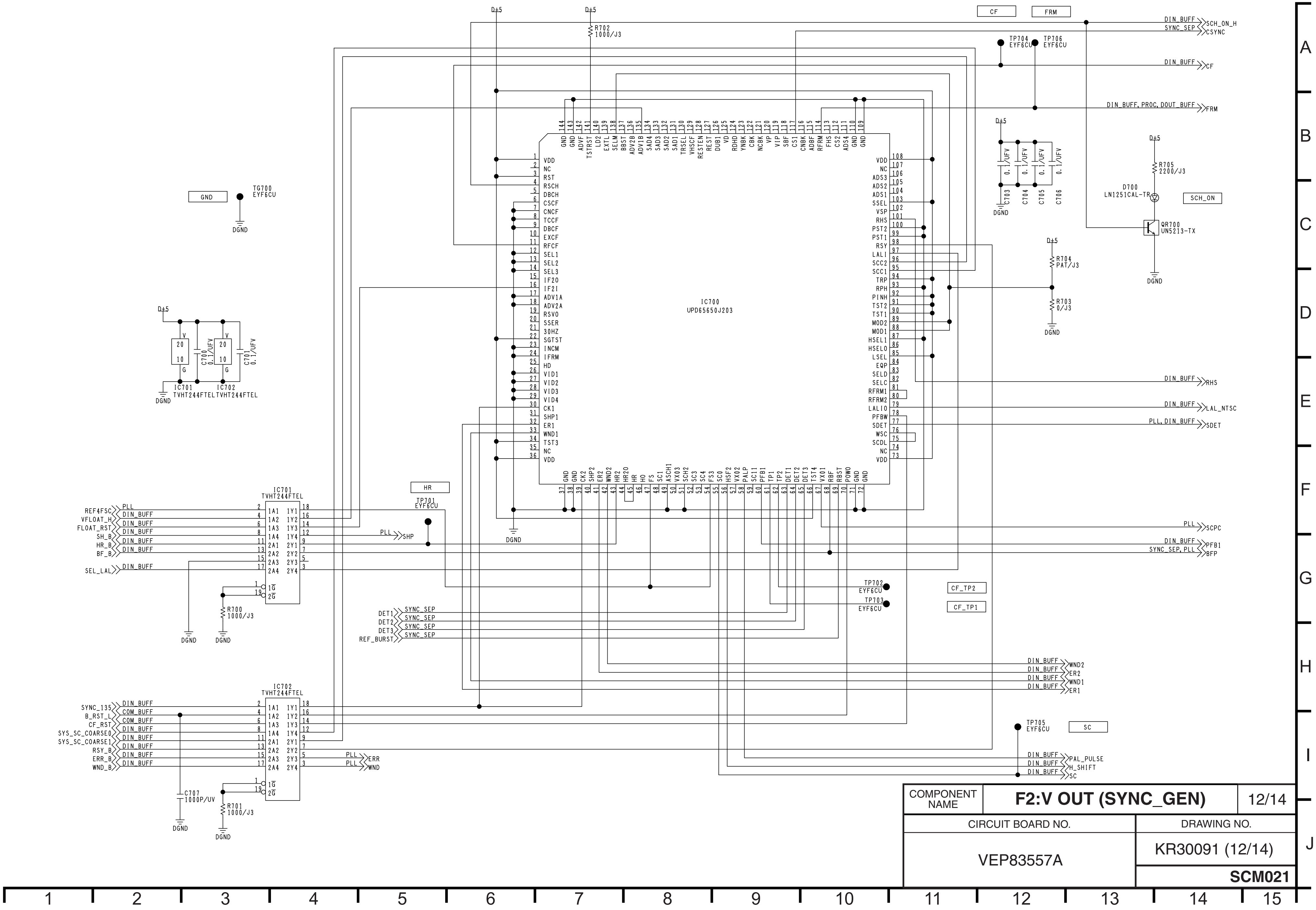
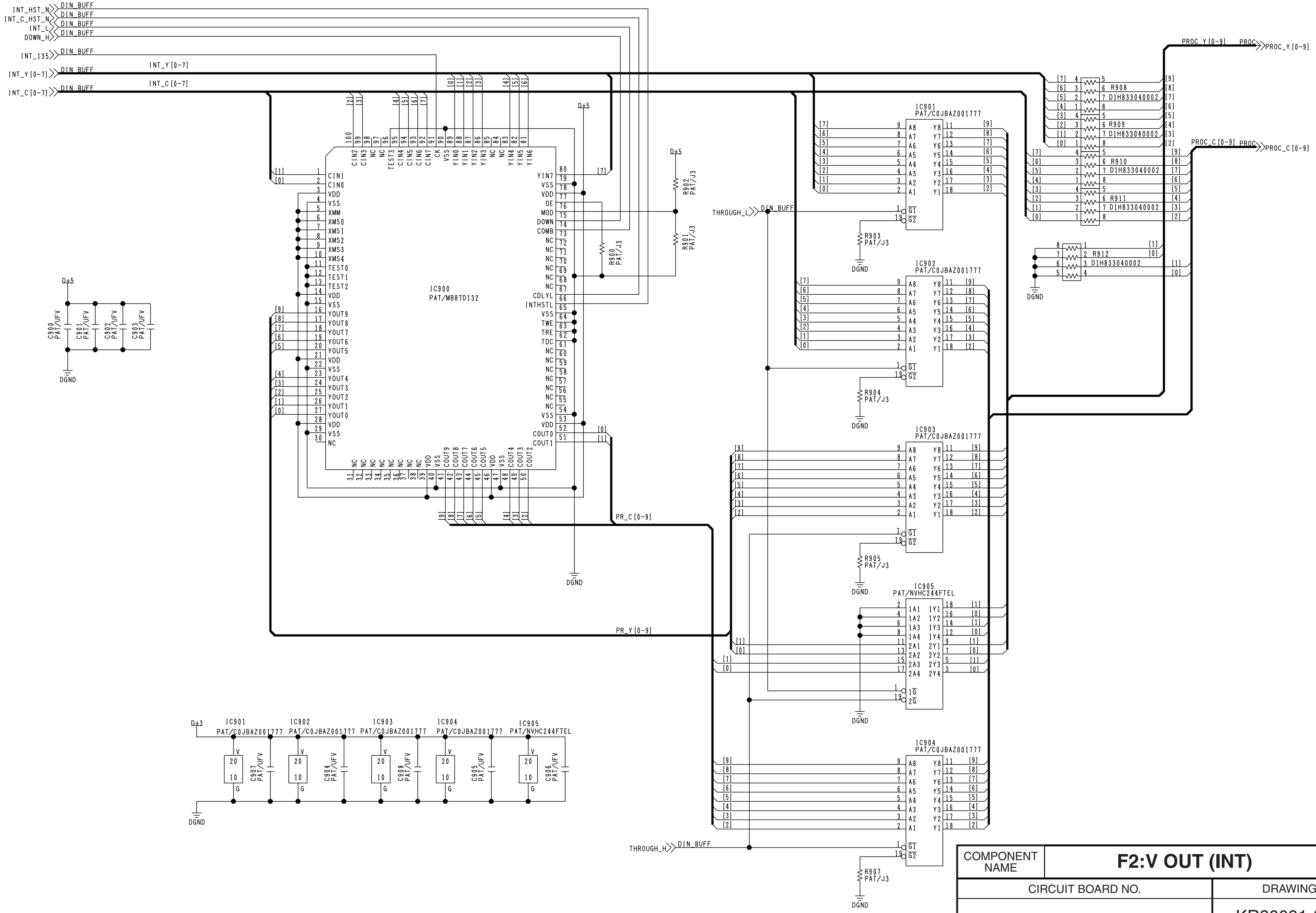
COMPONENT NAME	F2:V OUT (PLL)	11/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (11/14)	
	SCM020	


IC700
UPD65650J203
IC701
TVHT244FTEL
IC702
TVHT244FTEL
D+5
R702 1000/J3
R700 1000/J3
R701 1000/J3
R703 0/J3
R704 PAT/J3
R705 2200/J3
D700 LN1251CAL-TR
QR700 UN5213-TX
C700 0.1/UFV
C701 0.1/UFV
C703 0.1/UFV
C704 0.1/UFV
C705 0.1/UFV
C706 0.1/UFV
C707 1000P/UV
TG700 EYF6CU
TP701 EYF6CU
TP702 EYF6CU
TP703 EYF6CU
TP704 EYF6CU
TP705 EYF6CU
TP706 EYF6CU
GND
DGND
CF
FRM
HR
SC
SCH_ON
CF_TP2
CF_TP1
DIN_BUFF SCH_ON_H
SYNC_SEP CSYNC
DIN_BUFF CF
DIN_BUFF, PROC, DOUT_BUFF FRM
DIN_BUFF RHS
DIN_BUFF LAL_NTSC
PLL, DIN_BUFF SDET
PLL SCPC
DIN_BUFF PFB1
SYNC_SEP, PLL BFP
DIN_BUFF WND2
DIN_BUFF ER2
DIN_BUFF WND1
DIN_BUFF ER1
DIN_BUFF PAL_PULSE
DIN_BUFF H_SHIFT
DIN_BUFF SC
PLL SHP
PLL ERR
PLL WND
REF4FSC PLL
VFLOAT_H DIN_BUFF
FLOAT_RST DIN_BUFF
SH_B DIN_BUFF
HR_B DIN_BUFF
BF_B DIN_BUFF
SEL_LAL DIN_BUFF
DET1 SYNC_SEP
DET2 SYNC_SEP
DET3 SYNC_SEP
REF_BURST SYNC_SEP
SYNC_135 DIN_BUFF
B_RST_L COM_BUFF
CF_RST COM_BUFF
SYS_SC_COARSE0 DIN_BUFF
SYS_SC_COARSE1 DIN_BUFF
RSY_B DIN_BUFF
ERR_B DIN_BUFF
WND_B DIN_BUFF
1 VDD
2 NC
3 RST
4 RSCH
5 DBCH
6 CSCF
7 CNCF
8 TCCF
9 DBCF
10 EXCF
11 RFCF
12 SEL1
13 SEL2
14 SEL3
15 IF20
16 IF21
17 ADV1A
18 ADV2A
19 RSVO
20 SSER
21 30HZ
22 SGTST
23 INCM
24 IFRM
25 HD
26 VID1
27 VID2
28 VID3
29 VID4
30 CK1
31 SHP1
32 ER1
33 WND1
34 TST3
35 NC
36 VDD
37 GND
38 GND
39 CK2
40 SHP2
41 ER2
42 WND2
43 HR2
44 HR20
45 HR
46 HO
47 FS
48 SC1
49 ASCH1
50 VX03
51 SCH2
52 SC3
53 SC4
54 FS3
55 SC0
56 HSF2
57 VX02
58 PALP
59 SC11
60 PFB1
61 TP1
62 TP2
63 DET1
64 DET2
65 DET3
66 TST4
67 VX01
68 RBF
69 RBST
70 POWO
71 GND
72 GND
73 VDD
74 NC
75 SCDL
76 WSC
77 SDET
78 PFBW
79 LALIO
80 RFRM2
81 RFRM1
82 SELC
83 SELD
84 EQP
85 LSEL
86 HSELO
87 HSEL1
88 MOD1
89 MOD2
90 TST1
91 TST2
92 PINH
93 RPH
94 TRP
95 SCC1
96 SCC2
97 LALI
98 RSY
99 PST1
100 PST2
101 RHS
102 VSP
103 SSEL
104 ADS1
105 ADS2
106 ADS3
107 NC
108 VDD
109 GND
110 GND
111 ADS4
112 CS2
113 FHS
114 RFRM
115 ADBF
116 CNBK
117 CS1
118 SBF
119 VP
120 VP
121 NCBK
122 CBK
123 YNBK
124 RDHD
125 VD
126 DUB1
127 REST
128 RESTEN
129 VHSCF
130 TRSEL
131 SAD1
132 SAD2
133 SAD3
134 SAD4
135 ADV1B
136 ADV2B
137 BBST
138 SELM
139 EXTL
140 LD2
141 TSTRST
142 ADVF
143 GND
144 GND
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G 2G
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	F2:V OUT (SYNC_GEN)	12/14

CIRCUIT BOARD NO.	DRAWING NO.
VEP83557A	KR30091 (12/14)
	SCM021



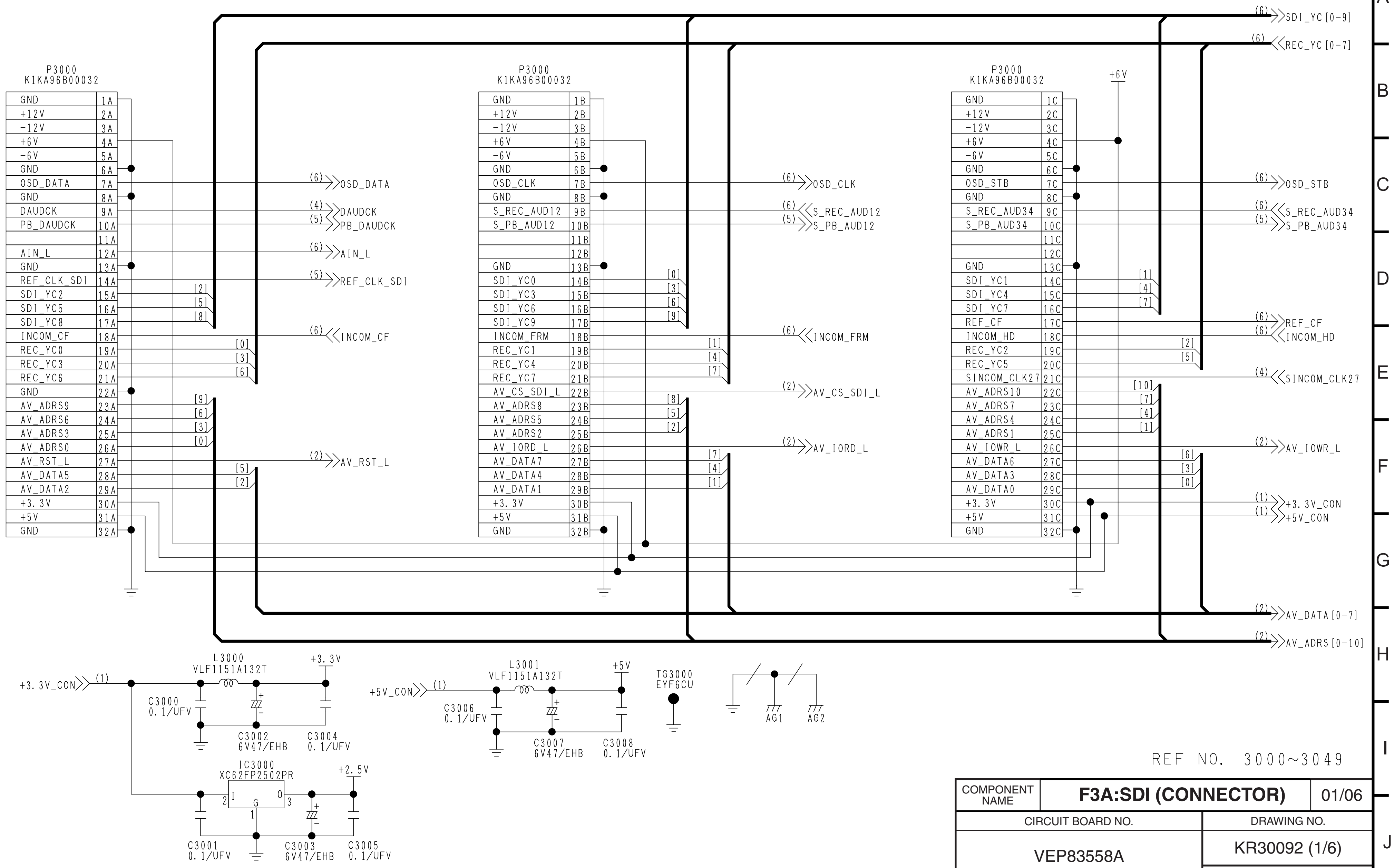
INT_HST_N
INT_C_HST_N
INT_L
DOWN_H
INT_135
INT_Y [0-7]
INT_C [0-7]
DIN_BUFF
IC900
PAT/MB87D132
CIN1
CIN0
VDD
VSS
XMM
XMS0
XMS1
XMS2
XMS3
XMS4
TEST0
TEST1
TEST2
YOUT9
YOUT8
YOUT7
YOUT6
YOUT5
YOUT4
YOUT3
YOUT2
YOUT1
YOUT0
NC
YIN7
OE
MOD
DOWN
COMB
CDLYL
INTHSTL
TWE
TRE
TDC
COUT0
COUT1
D+5
DGND
R900
R901
R902
PAT/J3
C900
C901
C902
C903
PAT/UFV
PR_C [0-9]
PR_Y [0-9]
THROUGH_L
THROUGH_H
IC901
PAT/C0JBAZ001777
IC902
PAT/C0JBAZ001777
IC903
PAT/C0JBAZ001777
IC904
PAT/C0JBAZ001777
IC905
PAT/NVHC244FTEL
R903
R904
R905
R907
R908
R909
R910
R911
R912
D1H833040002
PROC_Y [0-9]
PROC_C [0-9]
PROC
D+3
C904
C905
C906
C907
C908

COMPONENT NAME	**F2:V OUT (INT)**	13/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (13/14)	
	SCM022	

REF	AJ-D455P
C342	F1H1C104A042
C584	-----
C585	-----
C586	-----
IC565	-----
IC602	-----
ID202	VSI3559A
L562	VLQ0163J680
P201	-----
Q457	2SB709A-TX
Q463	-----
QR300	UN521300L
R200	-----
R202	-----
R203	ERJ3GEY0R00V
R204	ERJ3GEY0R00V
R205	ERJ3GEY0R00V
R358	ERJ3RBD182V

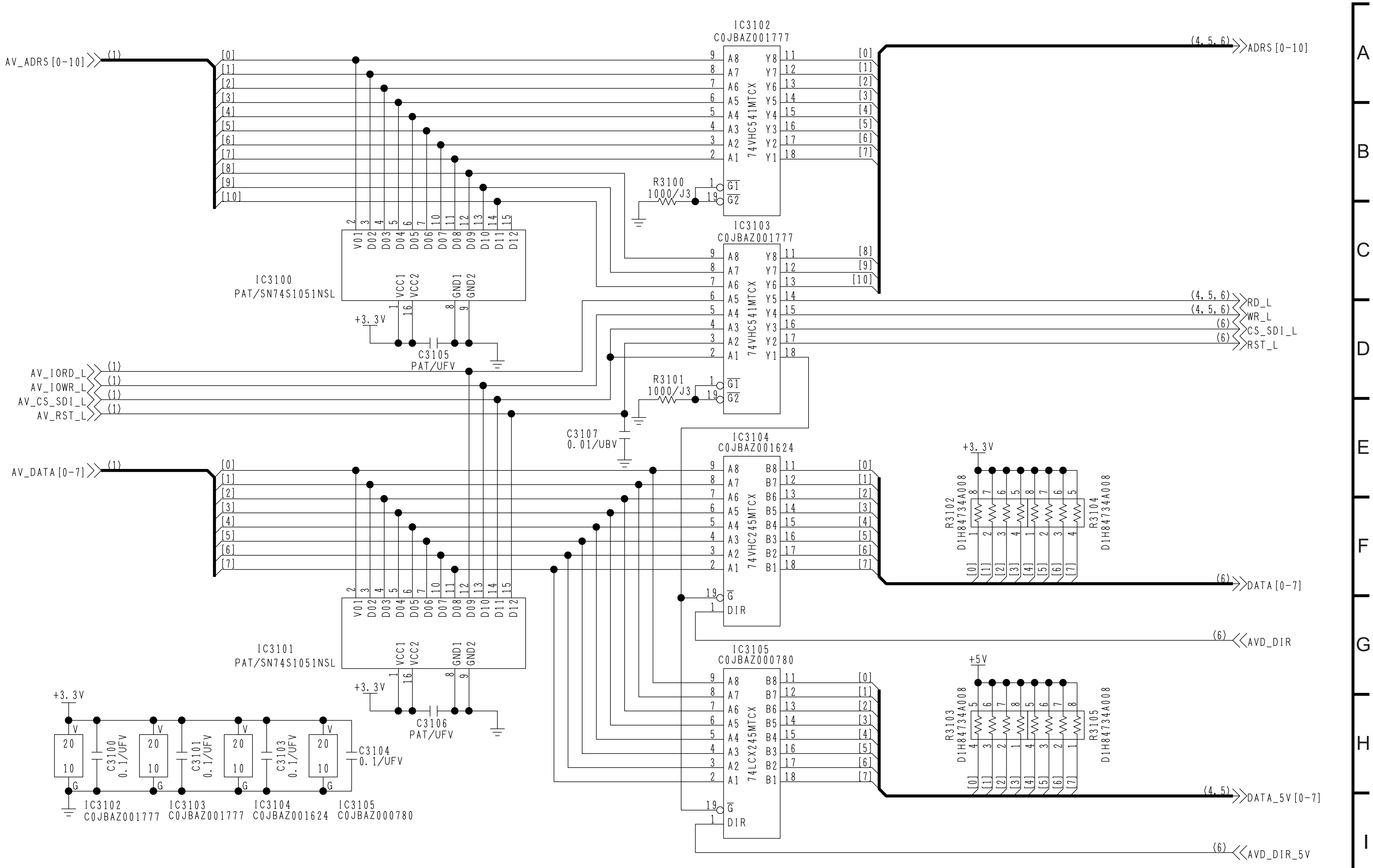
REF	AJ-D455P
R359	ERJ3GEY0R00V
R449	-----
R450	ERJ3GEYJ470V
R454	ERJ3GEYJ102V
R459	ERJ3RBD680V
R465	ERJ3RBD151V
R466	ERJ3RBD821V
R468	-----
R492	-----
R572	-----
R573	-----
R574	-----
R603	-----
R604	-----
R703	ERJ3GEY0R00V
R704	-----
VR451	EVMEGSA00B12
X600	VSX0197

COMPONENT NAME	F2:V OUT (PARTS_TABLE)	14/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557A	KR30091 (14/14)	
	SCM023	


P3000
K1KA96B00032
GND 1A
+12V 2A
-12V 3A
+6V 4A
-6V 5A
GND 6A
OSD_DATA 7A
GND 8A
DAUDCK 9A
PB_DAUDCK 10A
11A
AIN_L 12A
GND 13A
REF_CLK_SDI 14A
SDI_YC2 15A
SDI_YC5 16A
SDI_YC8 17A
INCOM_CF 18A
REC_YC0 19A
REC_YC3 20A
REC_YC6 21A
GND 22A
AV_ADRS9 23A
AV_ADRS6 24A
AV_ADRS3 25A
AV_ADRS0 26A
AV_RST_L 27A
AV_DATA5 28A
AV_DATA2 29A
+3.3V 30A
+5V 31A
GND 32A
(6) OSD_DATA
(4) DAUDCK
(5) PB_DAUDCK
(6) AIN_L
(5) REF_CLK_SDI
(6) INCOM_CF
(2) AV_RST_L
GND 1B
+12V 2B
-12V 3B
+6V 4B
-6V 5B
GND 6B
OSD_CLK 7B
GND 8B
S_REC_AUD12 9B
S_PB_AUD12 10B
11B
12B
GND 13B
SDI_YC0 14B
SDI_YC3 15B
SDI_YC6 16B
SDI_YC9 17B
INCOM_FRM 18B
REC_YC1 19B
REC_YC4 20B
REC_YC7 21B
AV_CS_SDI_L 22B
AV_ADRS8 23B
AV_ADRS5 24B
AV_ADRS2 25B
AV_IORD_L 26B
AV_DATA7 27B
AV_DATA4 28B
AV_DATA1 29B
+3.3V 30B
+5V 31B
GND 32B
(6) OSD_CLK
(6) S_REC_AUD12
(5) S_PB_AUD12
(6) INCOM_FRM
(2) AV_CS_SDI_L
(2) AV_IORD_L
+6V
GND 1C
+12V 2C
-12V 3C
+6V 4C
-6V 5C
GND 6C
OSD_STB 7C
GND 8C
S_REC_AUD34 9C
S_PB_AUD34 10C
11C
12C
GND 13C
SDI_YC1 14C
SDI_YC4 15C
SDI_YC7 16C
REF_CF 17C
INCOM_HD 18C
REC_YC2 19C
REC_YC5 20C
SINCOM_CLK27 21C
AV_ADRS10 22C
AV_ADRS7 23C
AV_ADRS4 24C
AV_ADRS1 25C
AV_IOWR_L 26C
AV_DATA6 27C
AV_DATA3 28C
AV_DATA0 29C
+3.3V 30C
+5V 31C
GND 32C
(6) OSD_STB
(6) S_REC_AUD34
(5) S_PB_AUD34
(6) REF_CF
(6) INCOM_HD
(4) SINCOM_CLK27
(2) AV_IOWR_L
(1) +3.3V_CON
(1) +5V_CON
(6) SDI_YC[0-9]
(6) REC_YC[0-7]
(2) AV_DATA[0-7]
(2) AV_ADRS[0-10]
+3.3V_CON (1)
L3000
VLF1151A132T
+3.3V
C3000
0.1/UFV
C3002
6V47/EHB
C3004
0.1/UFV
IC3000
XC62FP2502PR
+2.5V
C3001
0.1/UFV
C3003
6V47/EHB
C3005
0.1/UFV
+5V_CON (1)
L3001
VLF1151A132T
+5V
C3006
0.1/UFV
C3007
6V47/EHB
C3008
0.1/UFV
TG3000
EYF6CU
AG1
AG2
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

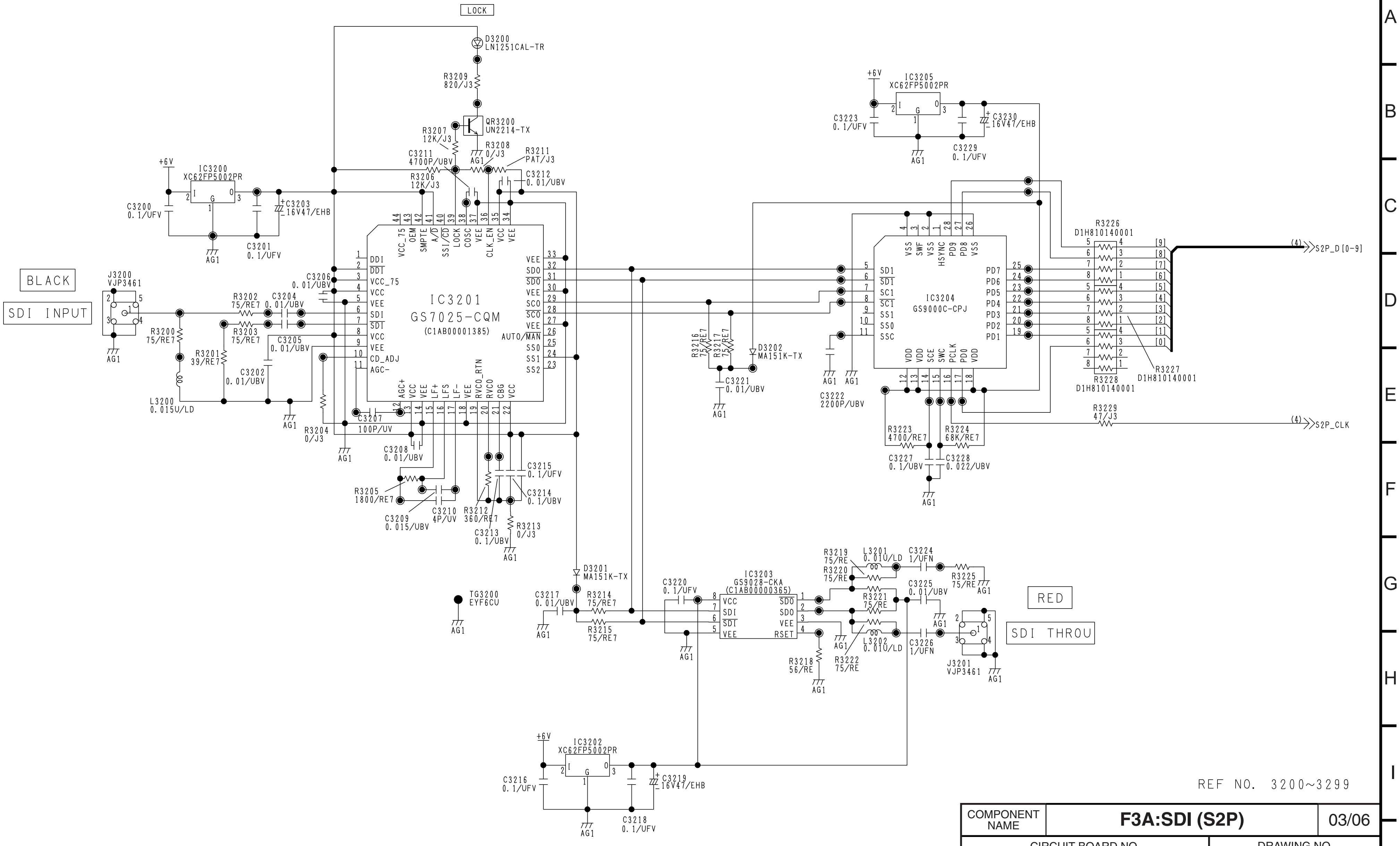
REF NO. 3000~3049

COMPONENT NAME	F3A:SDI (CONNECTOR)	01/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (1/6)	
	SCM024	


AV_ADRS[0-10]
(1)
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10]
IC3102
C0JBAZ001777
74VHC541MTCX
A8 A7 A6 A5 A4 A3 A2 A1
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
G1 G2
R3100
1000/J3
(4, 5, 6)
ADRS[0-10]
IC3103
C0JBAZ001777
74VHC541MTCX
R3101
1000/J3
[8] [9] [10]
RD_L
WR_L
CS_SDI_L
RST_L
(4, 5, 6)
(6)
IC3100
PAT/SN74S1051NSL
V01 D02 D03 D04 D05 D06 D07 D08 D09 D10 D11 D12
VCC1 VCC2 GND1 GND2
+3.3V
C3105
PAT/UFV
AV_IORD_L
AV_IOWR_L
AV_CS_SDI_L
AV_RST_L
C3107
0.01/UBV
AV_DATA[0-7]
IC3104
C0JBAZ001624
74VHC245MTCX
B8 B7 B6 B5 B4 B3 B2 B1
G
DIR
DATA[0-7]
AVD_DIR
IC3101
PAT/SN74S1051NSL
C3106
PAT/UFV
+3.3V
R3102
D1H84734A008
R3104
D1H84734A008
IC3105
C0JBAZ000780
74LCX245MTCX
+5V
R3103
D1H84734A008
R3105
D1H84734A008
(4, 5)
DATA_5V[0-7]
AVD_DIR_5V
C3100
0.1/UFV
C3101
0.1/UFV
C3103
0.1/UFV
C3104
0.1/UFV
IC3102
C0JBAZ001777
IC3103
C0JBAZ001777
IC3104
C0JBAZ001624
IC3105
C0JBAZ000780
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

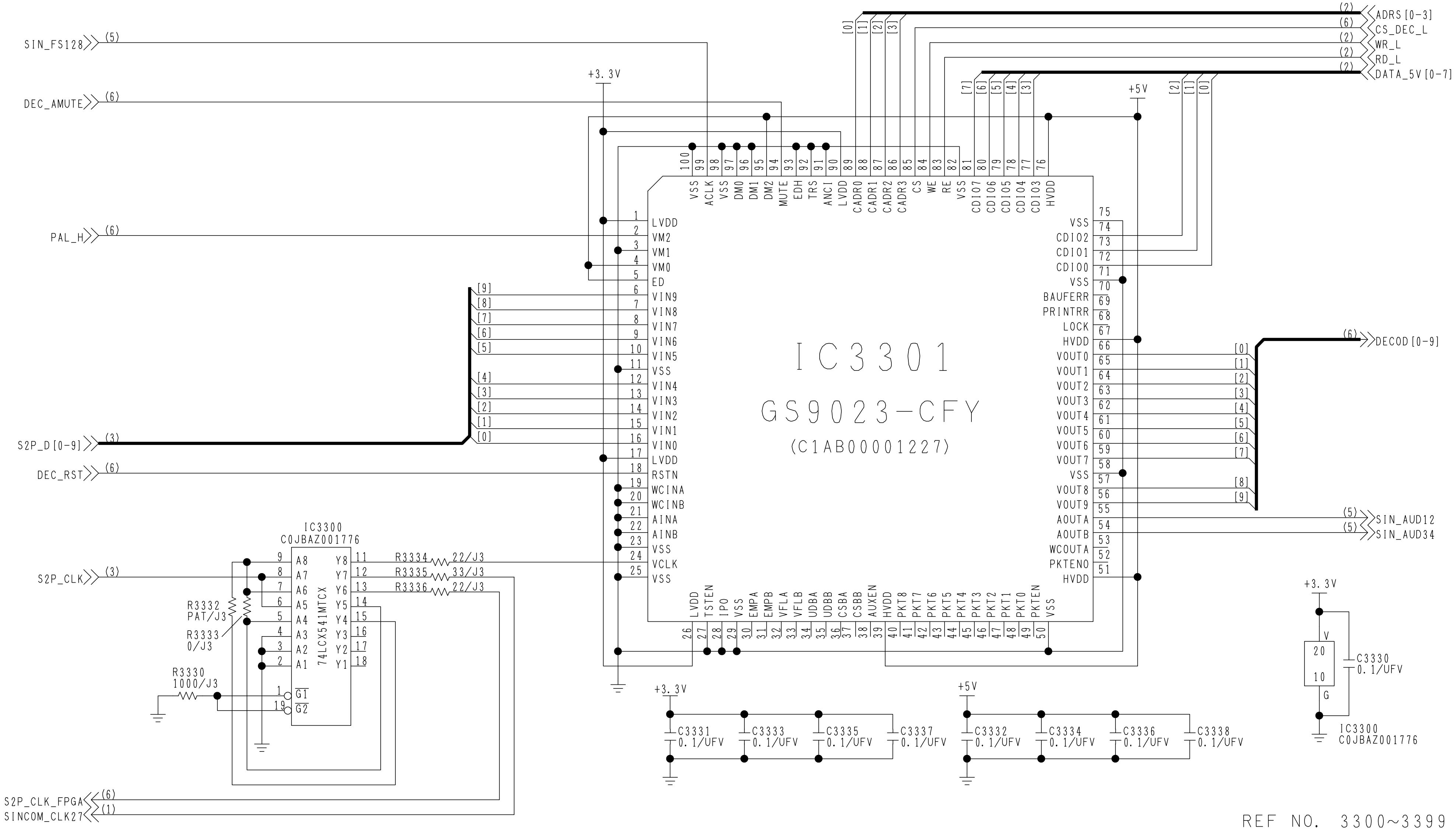
REF NO. 3100~3199

COMPONENT NAME	F3A:SDI (SYSIO)	02/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (2/6)	
	SCM025	


LOCK
D3200
LN1251CAL-TR
R3209
820/J3
QR3200
UN2214-TX
R3207
12K/J3
R3208
0/J3
AG1
C3211
4700P/UBV
R3211
PAT/J3
R3206
12K/J3
C3212
0.01/UBV
+6V
IC3200
XC62FP5002PR
C3200
0.1/UFV
C3201
0.1/UFV
C3203
16V47/EHB
BLACK
SDI INPUT
J3200
VJP3461
R3202
75/RE7
C3204
0.01/UBV
R3203
75/RE7
R3200
75/RE7
R3201
39/RE7
C3205
0.01/UBV
C3202
0.01/UBV
C3206
0.01/UBV
L3200
0.015U/LD
R3204
0/J3
C3207
100P/UV
IC3201
GS7025-CQM
(C1AB00001385)
DDI
VCC_75
VEE
SDI
VCC
CD_ADJ
AGC-
AGC+
LF+
LF-
LFS
RVCO_RTN
RVCO
CBG
OEM
SMPTE
A/D
SSI/CD
LOCK
COSC
CLK_EN
SDO
SCO
AUTO/MAN
SS0
SS1
SS2
C3208
0.01/UBV
R3205
1800/RE7
C3209
0.015/UBV
C3210
4P/UV
R3212
360/RE7
C3213
0.1/UBV
C3215
0.1/UFV
C3214
0.1/UBV
R3213
0/J3
TG3200
EYF6CU
D3201
MA151K-TX
C3217
0.01/UBV
R3214
75/RE7
R3215
75/RE7
C3220
0.1/UFV
IC3203
GS9028-CKA
(C1AB00000365)
RSET
R3218
56/RE
R3216
75/RE7
R3217
75/RE7
D3202
MA151K-TX
C3221
0.01/UBV
IC3205
XC62FP5002PR
C3223
0.1/UFV
C3229
0.1/UFV
C3230
16V47/EHB
IC3204
GS9000C-CPJ
VSS
SWF
HSYNC
PD9
PD8
SSC
VDD
SCE
SWC
PCLK
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
C3222
2200P/UBV
R3223
4700/RE7
R3224
68K/RE7
C3227
0.1/UBV
C3228
0.022/UBV
R3226
D1H810140001
R3227
D1H810140001
R3228
D1H810140001
R3229
47/J3
(4) S2P_D[0-9]
(4) S2P_CLK
R3219
75/RE
R3220
75/RE
L3201
0.010/LD
C3224
1/UFN
R3225
75/RE
C3225
0.01/UBV
R3221
75/RE
R3222
75/RE
L3202
0.010/LD
C3226
1/UFN
J3201
VJP3461
RED
SDI THROU
IC3202
XC62FP5002PR
C3216
0.1/UFV
C3218
0.1/UFV
C3219
16V47/EHB

REF NO. 3200~3299

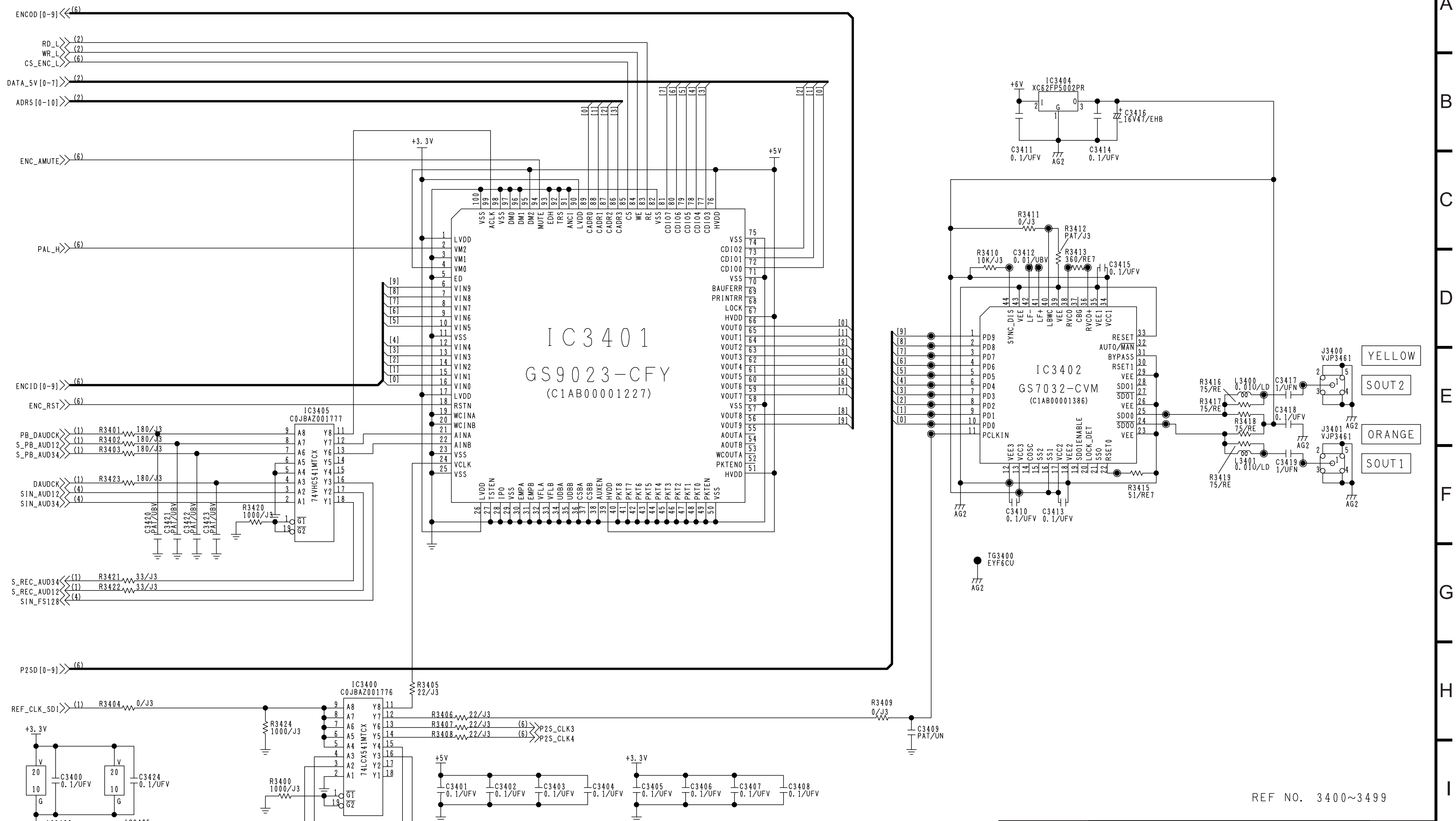
COMPONENT NAME	F3A:SDI (S2P)	03/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (3/6)	
	SCM026	



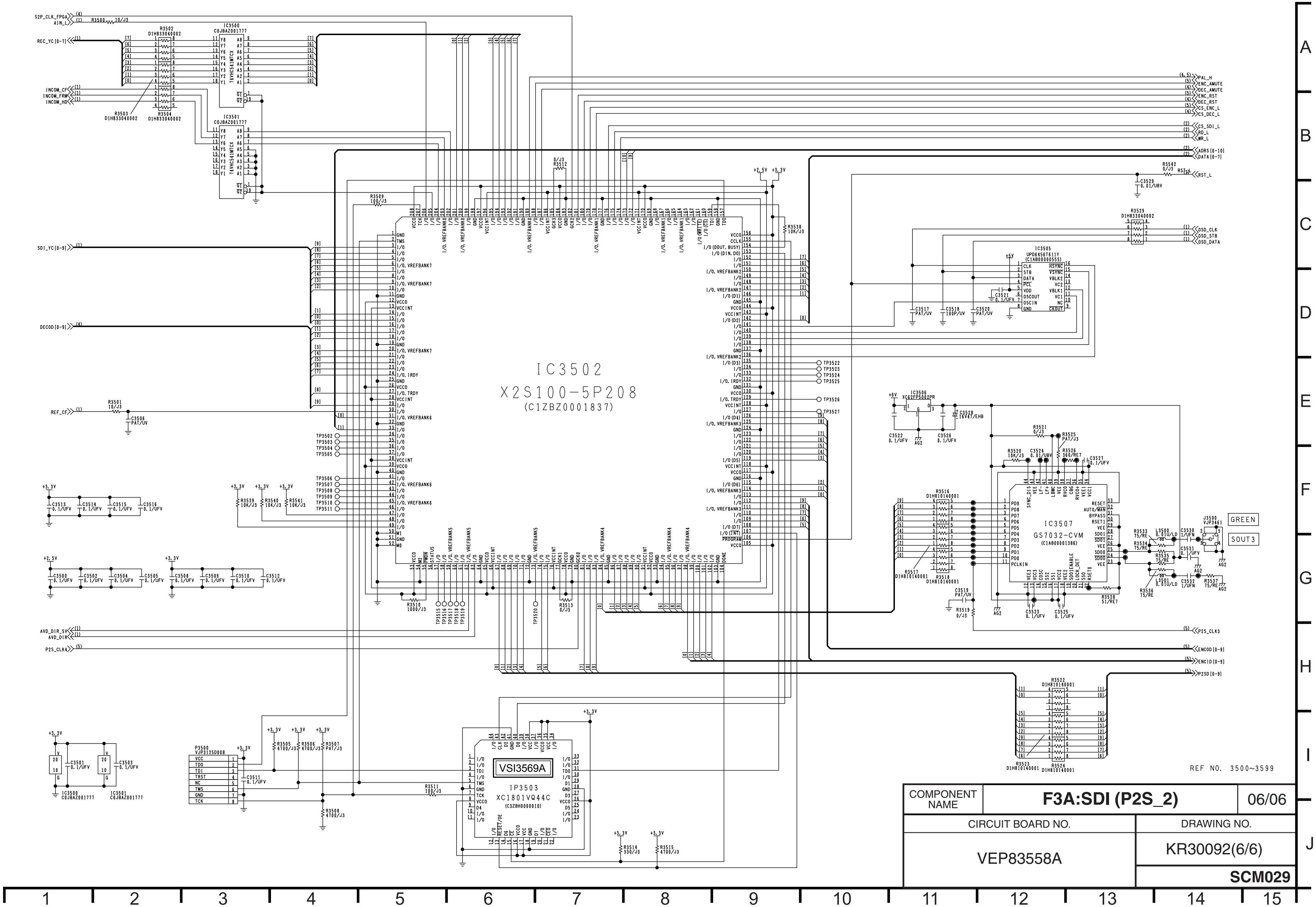
SIN_FS128 (5)
DEC_AMUTE (6)
PAL_H (6)
S2P_D[0-9] (3)
DEC_RST (6)
S2P_CLK (3)
S2P_CLK_FPGA (6)
SINCOM_CLK27 (1)
ADRS[0-3] (2)
CS_DEC_L (6)
WR_L (2)
RD_L (2)
DATA_5V[0-7] (2)
DECOD[0-9] (6)
SIN_AUD12 (5)
SIN_AUD34 (5)
+3.3V
+5V
IC3301
GS9023-CFY
(C1AB00001227)
1 LVDD
2 VM2
3 VM1
4 VM0
5 ED
6 VIN9
7 VIN8
8 VIN7
9 VIN6
10 VIN5
11 VSS
12 VIN4
13 VIN3
14 VIN2
15 VIN1
16 VIN0
17 LVDD
18 RSTN
19 WCINA
20 WCINB
21 AINA
22 AINB
23 VSS
24 VCLK
25 VSS
26 LVDD
27 TSTEN
28 IPO
29 VSS
30 EMPA
31 EMPB
32 VFLA
33 VFLB
34 UDBA
35 UDBB
36 CSBA
37 CSBB
38 AUXEN
39 HVDD
40 PKT8
41 PKT7
42 PKT6
43 PKT5
44 PKT4
45 PKT3
46 PKT2
47 PKT1
48 PKT0
49 PKTEN
50 VSS
51 HVDD
52 PKTENO
53 WCOUTA
54 AOUTB
55 AOUTA
56 VOUT9
57 VOUT8
58 VSS
59 VOUT7
60 VOUT6
61 VOUT5
62 VOUT4
63 VOUT3
64 VOUT2
65 VOUT1
66 VOUT0
67 HVDD
68 LOCK
69 PRINTRR
70 BAUFERR
71 VSS
72 CDIO0
73 CDIO1
74 CDIO2
75 VSS
76 HVDD
77 CDIO3
78 CDIO4
79 CDIO5
80 CDIO6
81 CDIO7
82 VSS
83 RE
84 WE
85 CS
86 CADR3
87 CADR2
88 CADR1
89 CADR0
90 LVDD
91 ANCI
92 TRS
93 EDH
94 MUTE
95 DM2
96 DM1
97 DM0
98 VSS
99 ACLK
100 VSS
IC3300
C0JBAZ001776
74LCX541MTCX
A1 A2 A3 A4 A5 A6 A7 A8
Y1 Y2 Y3 Y4 Y5 Y6 Y7 Y8
G1 G2
R3334 22/J3
R3335 33/J3
R3336 22/J3
R3332 PAT/J3
R3333 0/J3
R3330 1000/J3
C3331 0.1/UFV
C3333 0.1/UFV
C3335 0.1/UFV
C3337 0.1/UFV
C3332 0.1/UFV
C3334 0.1/UFV
C3336 0.1/UFV
C3338 0.1/UFV
C3330 0.1/UFV
V 20 10 G
IC3300
C0JBAZ001776

REF NO. 3300~3399

COMPONENT NAME	F3A:SDI (DECODER)	04/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (4/6)	
	SCM027	


ENCOD[0-9]
RD_L
WR_L
CS_ENC_L
DATA_5V[0-7]
ADRS[0-10]
ENC_AMUTE
PAL_H
ENCID[0-9]
ENC_RST
PB_DAUDCK
S_PB_AUD12
S_PB_AUD34
DAUDCK
SIN_AUD12
SIN_AUD34
S_REC_AUD34
S_REC_AUD12
SIN_FS128
P2SD[0-9]
REF_CLK_SDI
+3.3V
+5V
+6V
IC3401
GS9023-CFY
(C1AB00001227)
IC3402
GS7032-CVM
(C1AB00001386)
IC3404
XC62FP5002PR
IC3405
C0JBAZ001777
74VHC541MTCX
IC3400
C0JBAZ001776
74LCX541MTCX
R3401 180/J3
R3402 180/J3
R3403 180/J3
R3423 180/J3
R3420 1000/J3
R3421 33/J3
R3422 33/J3
R3404 0/J3
R3405 22/J3
R3406 22/J3
R3407 22/J3
R3408 22/J3
R3409 0/J3
R3424 1000/J3
R3400 1000/J3
R3410 10K/J3
R3411 0/J3
R3412 PAT/J3
R3413 360/RE7
R3415 51/RE7
R3416 75/RE
R3417 75/RE
R3418 75/RE
R3419 75/RE
C3400 0.1/UFV
C3401 0.1/UFV
C3402 0.1/UFV
C3403 0.1/UFV
C3404 0.1/UFV
C3405 0.1/UFV
C3406 0.1/UFV
C3407 0.1/UFV
C3408 0.1/UFV
C3409 PAT/UN
C3410 0.1/UFV
C3411 0.1/UFV
C3412 0.01/UBV
C3413 0.1/UFV
C3414 0.1/UFV
C3415 0.1/UFV
C3416 16V47/EHB
C3417 1/UFN
C3418 0.1/UFV
C3419 1/UFN
C3420 PAT/UBV
C3421 PAT/UBV
C3422 PAT/UBV
C3423 PAT/UBV
C3424 0.1/UFV
L3400 0.010/LD
L3401 0.010/LD
J3400 VJP3461
J3401 VJP3461
TG3400 EYF6CU
AG2
P2S_CLK3
P2S_CLK4
YELLOW
SOUT2
ORANGE
SOUT1
REF NO. 3400~3499
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	F3A:SDI (P2S_1)	05/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (5/6)	
	SCM028	


IC3502
X2S100-5P208
(C1ZBZ0001837)
IC3500
C0JBAZ001777
IC3501
C0JBAZ001777
IC3505
UPD6456T611Y
(C1AB00000555)
IC3506
XC62FP5002PR
IC3507
GS7032-CVM
(C1AB00001386)
IP3503
XC1801VQ44C
(C3ZBH0000010)
VSI3569A
P3500
VJP3125D008
J3500
VJP3461
GREEN
SOUT3
S2P_CLK_FPGA
AIN_L
REC_YC[0-7]
INCOM_CF
INCOM_FRM
INCOM_HD
SDI_YC[0-9]
DECOD[0-9]
REF_CF
AVD_DIR_5V
AVD_DIR
P2S_CLK4
PAL_H
ENC_AMUTE
DEC_AMUTE
ENC_RST
DEC_RST
CS_ENC_L
CS_DEC_L
CS_SDI_L
RD_L
WR_L
ADRS[0-10]
DATA[0-7]
RST_L
OSD_CLK
OSD_STB
OSD_DATA
P2S_CLK3
ENCOD[0-9]
ENCID[0-9]
P2SD[0-9]
+3.3V
+2.5V
+5V
+6V
REF NO. 3500~3599
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
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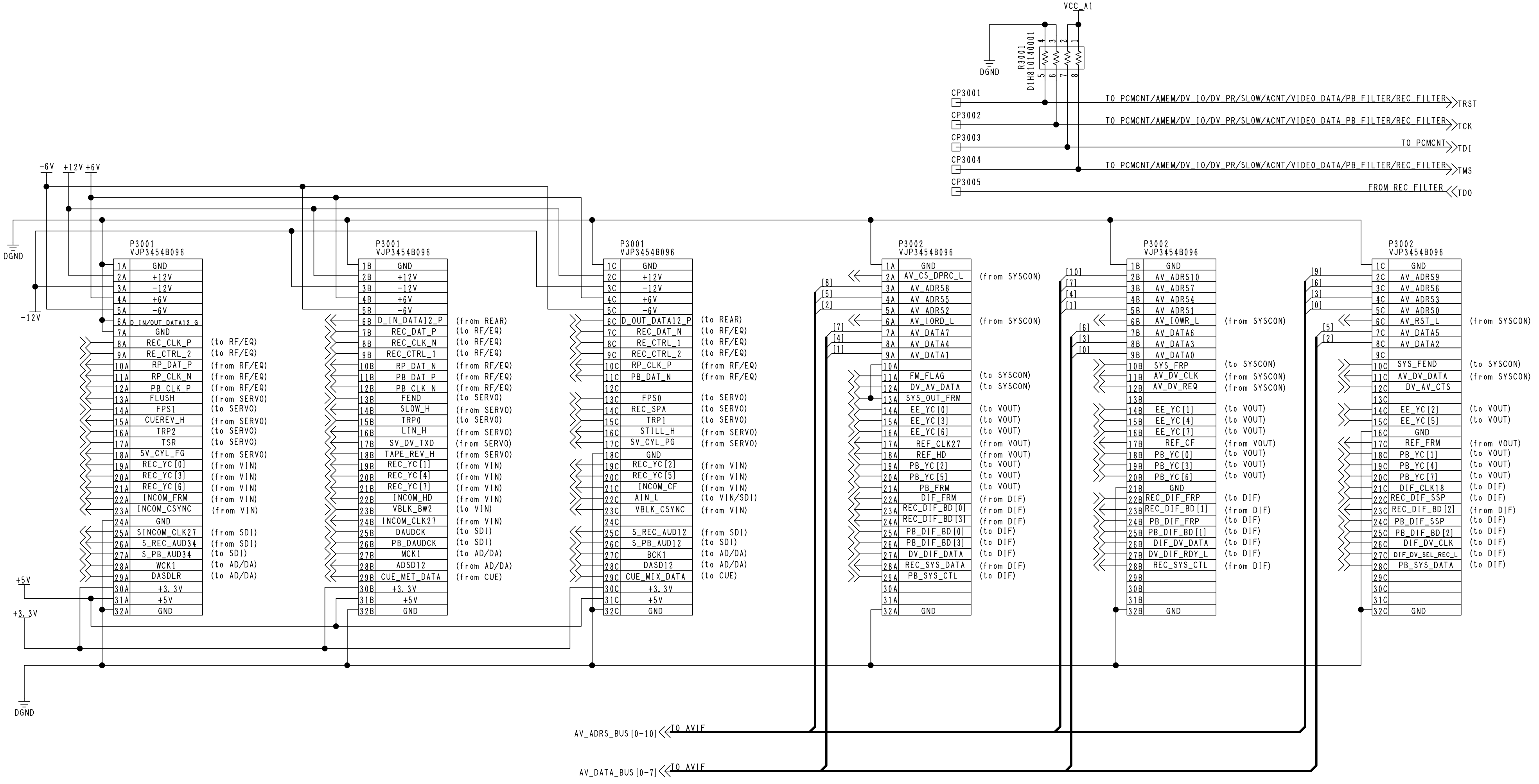
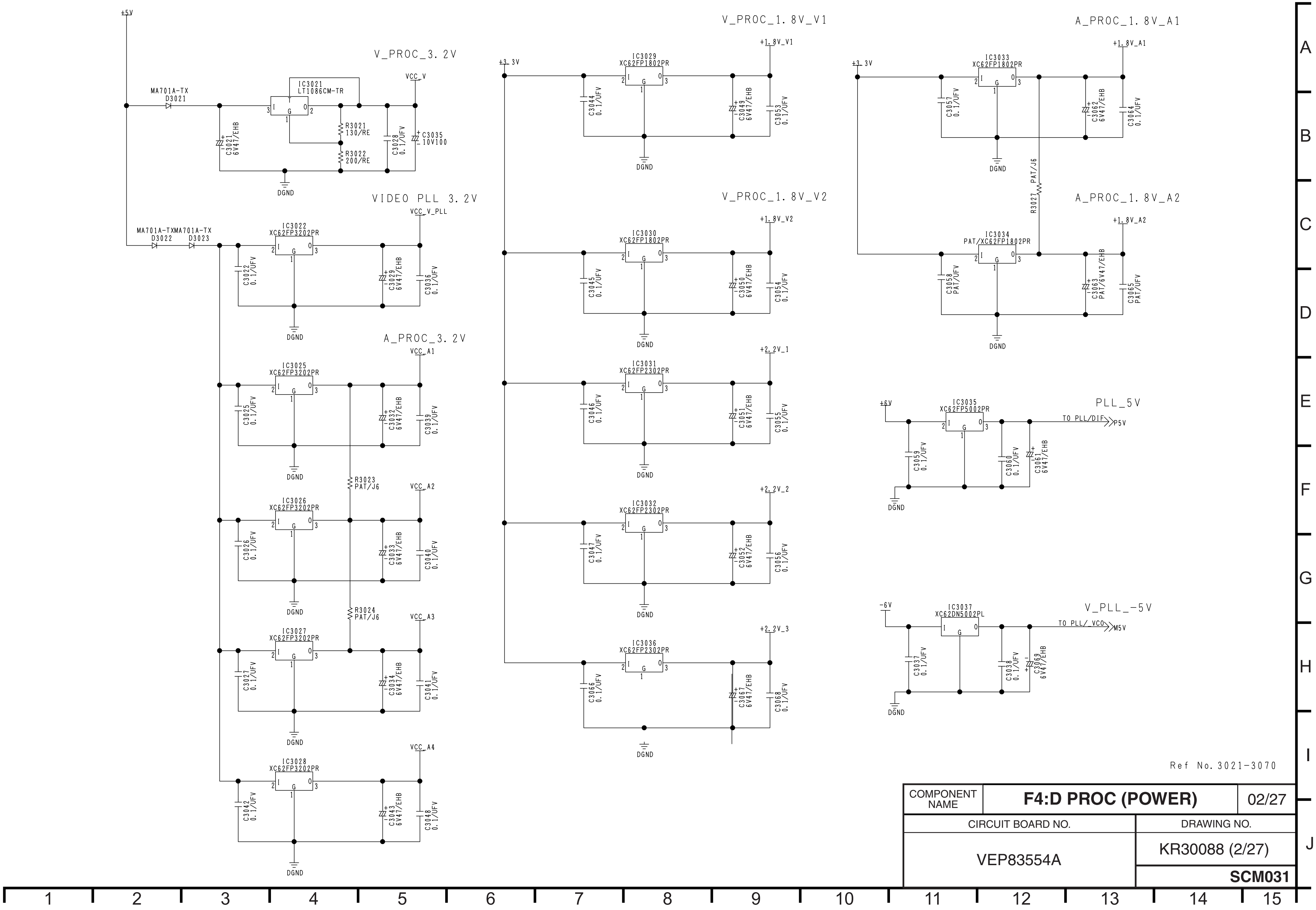
COMPONENT NAME	F3A:SDI (P2S_2)	06/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092(6/6)	
	SCM029	


VCC_A1
R3001
D1H810140001
DGND
CP3001
TO PCMCNT/AMEM/DV_IO/DV_PR/SLOW/ACNT/VIDEO_DATA/PB_FILTER/REC_FILTER
TRST
CP3002
TO PCMCNT/AMEM/DV_IO/DV_PR/SLOW/ACNT/VIDEO_DATA_PB_FILTER/REC_FILTER
TCK
CP3003
TO PCMCNT
TDI
CP3004
TO PCMCNT/AMEM/DV_IO/DV_PR/SLOW/ACNT/VIDEO_DATA/PB_FILTER/REC_FILTER
TMS
CP3005
FROM REC_FILTER
TDO
-6V
+12V
+6V
-12V
DGND
+5V
+3.3V
P3001
VJP3454B096
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A D_IN/OUT_DATA12_G
7A GND
8A REC_CLK_P (to RF/EQ)
9A RE_CTRL_2 (to RF/EQ)
10A RP_DAT_P (from RF/EQ)
11A RP_CLK_N (from RF/EQ)
12A PB_CLK_P (from RF/EQ)
13A FLUSH (from SERVO)
14A FPS1 (to SERVO)
15A CUEREV_H (from SERVO)
16A TRP2 (to SERVO)
17A TSR (to SERVO)
18A SV_CYL_FG (from SERVO)
19A REC_YC[0] (from VIN)
20A REC_YC[3] (from VIN)
21A REC_YC[6] (from VIN)
22A INCOM_FRM (from VIN)
23A INCOM_CSYNC (from VIN)
24A GND
25A SINCOM_CLK27 (from SDI)
26A S_REC_AUD34 (from SDI)
27A S_PB_AUD34 (to SDI)
28A WCK1 (to AD/DA)
29A DASDLR (to AD/DA)
30A +3.3V
31A +5V
32A GND
P3001
VJP3454B096
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B D_IN_DATA12_P (from REAR)
7B REC_DAT_P (to RF/EQ)
8B REC_CLK_N (to RF/EQ)
9B REC_CTRL_1 (to RF/EQ)
10B RP_DAT_N (from RF/EQ)
11B PB_DAT_P (from RF/EQ)
12B PB_CLK_N (from RF/EQ)
13B FEND (to SERVO)
14B SLOW_H (from SERVO)
15B TRP0 (to SERVO)
16B LIN_H (from SERVO)
17B SV_DV_TXD (from SERVO)
18B TAPE_REV_H (from SERVO)
19B REC_YC[1] (from VIN)
20B REC_YC[4] (from VIN)
21B REC_YC[7] (from VIN)
22B INCOM_HD (from VIN)
23B VBLK_BW2 (to VIN)
24B INCOM_CLK27 (from VIN)
25B DAUDCK (to SDI)
26B PB_DAUDCK (to SDI)
27B MCK1 (to AD/DA)
28B ADSD12 (from AD/DA)
29B CUE_MET_DATA (from CUE)
30B +3.3V
31B +5V
32B GND
P3001
VJP3454B096
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C D_OUT_DATA12_P (to REAR)
7C REC_DAT_N (to RF/EQ)
8C RE_CTRL_1 (to RF/EQ)
9C REC_CTRL_2 (to RF/EQ)
10C RP_CLK_P (from RF/EQ)
11C PB_DAT_N (from RF/EQ)
12C
13C FPS0 (to SERVO)
14C REC_SPA (to SERVO)
15C TRP1 (to SERVO)
16C STILL_H (from SERVO)
17C SV_CYL_PG (from SERVO)
18C GND
19C REC_YC[2] (from VIN)
20C REC_YC[5] (from VIN)
21C INCOM_CF (from VIN)
22C AIN_L (to VIN/SDI)
23C VBLK_CSYNC (from VIN)
24C
25C S_REC_AUD12 (from SDI)
26C S_PB_AUD12 (to SDI)
27C BCK1 (to AD/DA)
28C DASD12 (to AD/DA)
29C CUE_MIX_DATA (to CUE)
30C +3.3V
31C +5V
32C GND
P3002
VJP3454B096
1A GND
2A AV_CS_DPRC_L (from SYSCON)
[8] 3A AV_ADRS8
[5] 4A AV_ADRS5
[2] 5A AV_ADRS2
6A AV_IORD_L (from SYSCON)
[7] 7A AV_DATA7
[4] 8A AV_DATA4
[1] 9A AV_DATA1
10A
11A FM_FLAG (to SYSCON)
12A DV_AV_DATA (to SYSCON)
13A SYS_OUT_FRM
14A EE_YC[0] (to VOUT)
15A EE_YC[3] (to VOUT)
16A EE_YC[6] (to VOUT)
17A REF_CLK27 (from VOUT)
18A REF_HD (from VOUT)
19A PB_YC[2] (to VOUT)
20A PB_YC[5] (to VOUT)
21A PB_FRM (to VOUT)
22A DIF_FRM (from DIF)
23A REC_DIF_BD[0] (from DIF)
24A REC_DIF_BD[3] (from DIF)
25A PB_DIF_BD[0] (to DIF)
26A PB_DIF_BD[3] (to DIF)
27A DV_DIF_DATA (to DIF)
28A REC_SYS_DATA (from DIF)
29A PB_SYS_CTL (to DIF)
30A
31A
32A GND
P3002
VJP3454B096
1B GND
[10] 2B AV_ADRS10
[7] 3B AV_ADRS7
[4] 4B AV_ADRS4
[1] 5B AV_ADRS1
6B AV_IOWR_L (from SYSCON)
[6] 7B AV_DATA6
[3] 8B AV_DATA3
[0] 9B AV_DATA0
10B SYS_FRP (to SYSCON)
11B AV_DV_CLK (from SYSCON)
12B AV_DV_REQ (from SYSCON)
13B
14B EE_YC[1] (to VOUT)
15B EE_YC[4] (to VOUT)
16B EE_YC[7] (to VOUT)
17B REF_CF (from VOUT)
18B PB_YC[0] (to VOUT)
19B PB_YC[3] (to VOUT)
20B PB_YC[6] (to VOUT)
21B GND
22B REC_DIF_FRP (to DIF)
23B REC_DIF_BD[1] (from DIF)
24B PB_DIF_FRP (to DIF)
25B PB_DIF_BD[1] (to DIF)
26B DIF_DV_DATA (to DIF)
27B DV_DIF_RDY_L (to DIF)
28B REC_SYS_CTL (from DIF)
29B
30B
31B
32B GND
P3002
VJP3454B096
1C GND
[9] 2C AV_ADRS9
[6] 3C AV_ADRS6
[3] 4C AV_ADRS3
[0] 5C AV_ADRS0
6C AV_RST_L (from SYSCON)
[5] 7C AV_DATA5
[2] 8C AV_DATA2
9C
10C SYS_FEND (to SYSCON)
11C AV_DV_DATA (from SYSCON)
12C DV_AV_CTS
13C
14C EE_YC[2] (to VOUT)
15C EE_YC[5] (to VOUT)
16C GND
17C REF_FRM (from VOUT)
18C PB_YC[1] (to VOUT)
19C PB_YC[4] (to VOUT)
20C PB_YC[7] (to VOUT)
21C DIF_CLK18 (to DIF)
22C REC_DIF_SSP (to DIF)
23C REC_DIF_BD[2] (from DIF)
24C PB_DIF_SSP (to DIF)
25C PB_DIF_BD[2] (to DIF)
26C DIF_DV_CLK (to DIF)
27C DIF_DV_SEL_REC_L (to DIF)
28C PB_SYS_DATA (to DIF)
29C
30C
31C
32C GND
AV_ADRS_BUS[0-10] TO AVIF
AV_DATA_BUS[0-7] TO AVIF

Ref No. 3001-3020

COMPONENT NAME	F4:D PROC (MOTHER)	01/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (1/27)	
	SCM030	


+5V
V_PROC_3.2V
MA701A-TX
D3021
IC3021
LT1086CM-TR
VCC_V
C3021 6V47/EHB
R3021 130/RE
R3022 200/RE
C3028 0.1/UFV
C3035 10V100
DGND
VIDEO PLL 3.2V
VCC_V_PLL
MA701A-TX MA701A-TX
D3022 D3023
IC3022 XC62FP3202PR
C3022 0.1/UFV
C3029 6V47/EHB
C3036 0.1/UFV
A_PROC_3.2V
VCC_A1
IC3025 XC62FP3202PR
C3025 0.1/UFV
C3032 6V47/EHB
C3039 0.1/UFV
R3023 PAT/J6
VCC_A2
IC3026 XC62FP3202PR
C3026 0.1/UFV
C3033 6V47/EHB
C3040 0.1/UFV
R3024 PAT/J6
VCC_A3
IC3027 XC62FP3202PR
C3027 0.1/UFV
C3034 6V47/EHB
C3041 0.1/UFV
VCC_A4
IC3028 XC62FP3202PR
C3042 0.1/UFV
C3043 6V47/EHB
C3048 0.1/UFV
+3.3V
V_PROC_1.8V_V1
+1.8V_V1
IC3029 XC62FP1802PR
C3044 0.1/UFV
C3049 6V47/EHB
C3053 0.1/UFV
V_PROC_1.8V_V2
+1.8V_V2
IC3030 XC62FP1802PR
C3045 0.1/UFV
C3050 6V47/EHB
C3054 0.1/UFV
+2.2V_1
IC3031 XC62FP2302PR
C3046 0.1/UFV
C3051 6V47/EHB
C3055 0.1/UFV
+2.2V_2
IC3032 XC62FP2302PR
C3047 0.1/UFV
C3052 6V47/EHB
C3056 0.1/UFV
+2.2V_3
IC3036 XC62FP2302PR
C3066 0.1/UFV
C3067 6V47/EHB
C3068 0.1/UFV
A_PROC_1.8V_A1
+1.8V_A1
+3.3V
IC3033 XC62FP1802PR
C3057 0.1/UFV
C3062 6V47/EHB
C3064 0.1/UFV
R3027 PAT/J6
A_PROC_1.8V_A2
+1.8V_A2
IC3034 PAT/XC62FP1802PR
C3058 PAT/UFV
C3063 PAT/6V47/EHB
C3065 PAT/UFV
PLL_5V
+6V
IC3035 XC62FP5002PR
TO PLL/DIF
P5V
C3059 0.1/UFV
C3060 0.1/UFV
C3061 6V47/EHB
V_PLL_-5V
-6V
IC3037 XC62DN5002PL
TO PLL/_VCO
M5V
C3037 0.1/UFV
C3038 0.1/UFV
C3069 6V47/EHB
I
G
O
Ref No. 3021-3070
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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10
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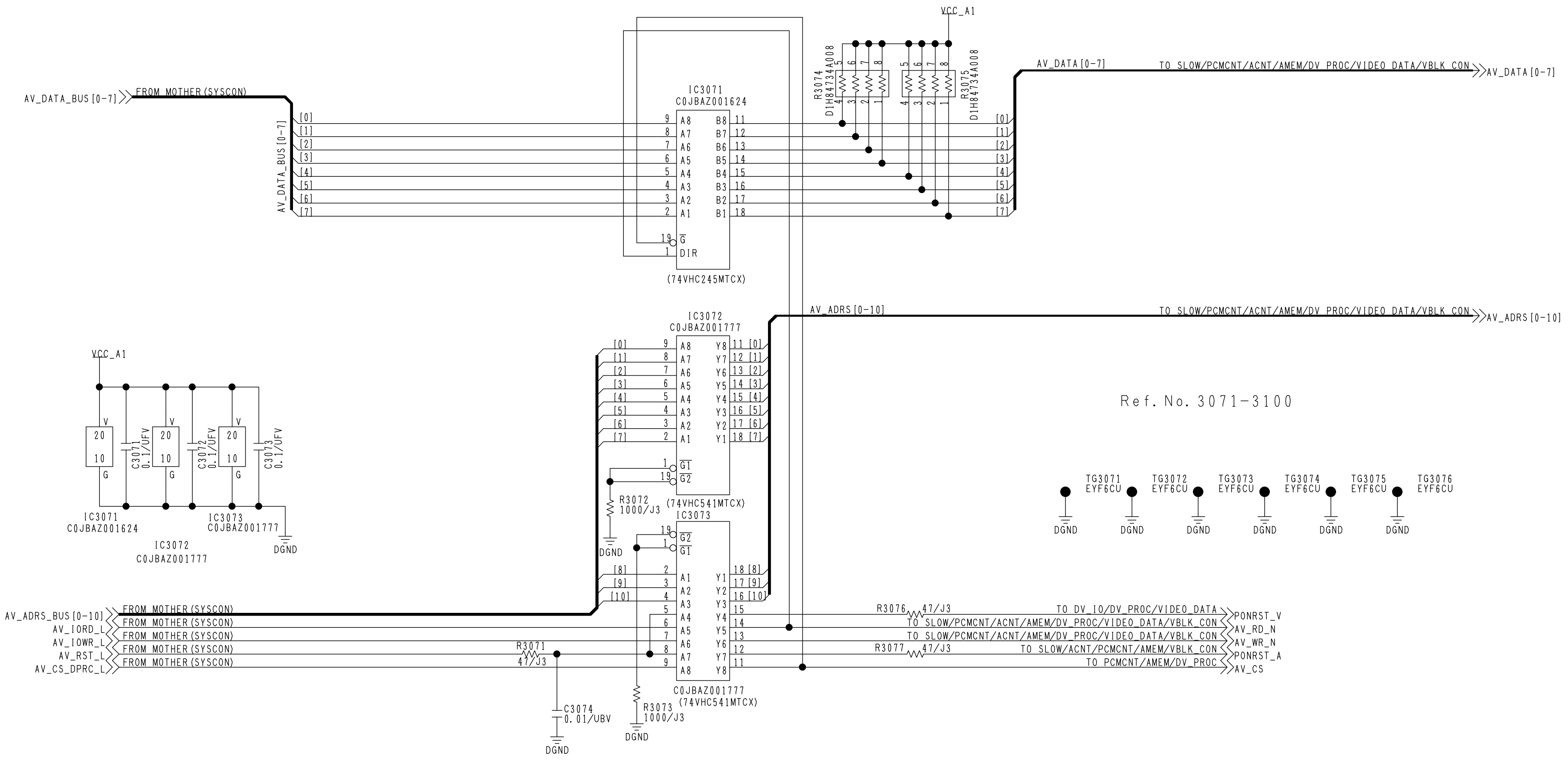
COMPONENT NAME	F4:D PROC (POWER)	02/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (2/27)	
	SCM031	


AV_DATA_BUS [0-7]
FROM MOTHER (SYSCON)
AV_DATA_BUS [0-7]
IC3071
C0JBAZ001624
(74VHC245MTCX)
A8 A7 A6 A5 A4 A3 A2 A1
B8 B7 B6 B5 B4 B3 B2 B1
G
DIR
VCC_A1
R3074
D1H84734A008
R3075
D1H84734A008
AV_DATA [0-7]
TO SLOW/PCMCNT/ACNT/AMEM/DV_PROC/VIDEO_DATA/VBLK_CON
AV_DATA [0-7]
IC3072
C0JBAZ001777
(74VHC541MTCX)
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
G1
G2
AV_ADRS [0-10]
TO SLOW/PCMCNT/ACNT/AMEM/DV_PROC/VIDEO_DATA/VBLK_CON
AV_ADRS [0-10]
Ref. No. 3071-3100
VCC_A1
C3071
0.1/UFV
C3072
0.1/UFV
C3073
0.1/UFV
IC3071
C0JBAZ001624
IC3072
C0JBAZ001777
IC3073
C0JBAZ001777
DGND
R3072
1000/J3
IC3073
C0JBAZ001777
(74VHC541MTCX)
TG3071
EYF6CU
TG3072
EYF6CU
TG3073
EYF6CU
TG3074
EYF6CU
TG3075
EYF6CU
TG3076
EYF6CU
DGND
AV_ADRS_BUS [0-10]
AV_IORD_L
AV_IOWR_L
AV_RST_L
AV_CS_DPRC_L
FROM MOTHER (SYSCON)
R3071
47/J3
C3074
0.01/UBV
DGND
R3073
1000/J3
DGND
R3076
47/J3
R3077
47/J3
TO DV_IO/DV_PROC/VIDEO_DATA
TO SLOW/PCMCNT/ACNT/AMEM/DV_PROC/VIDEO_DATA/VBLK_CON
TO SLOW/PCMCNT/ACNT/AMEM/DV_PROC/VIDEO_DATA/VBLK_CON
TO SLOW/ACNT/PCMCNT/AMEM/VBLK_CON
TO PCMCNT/AMEM/DV_PROC
PONRST_V
AV_RD_N
AV_WR_N
PONRST_A
AV_CS
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
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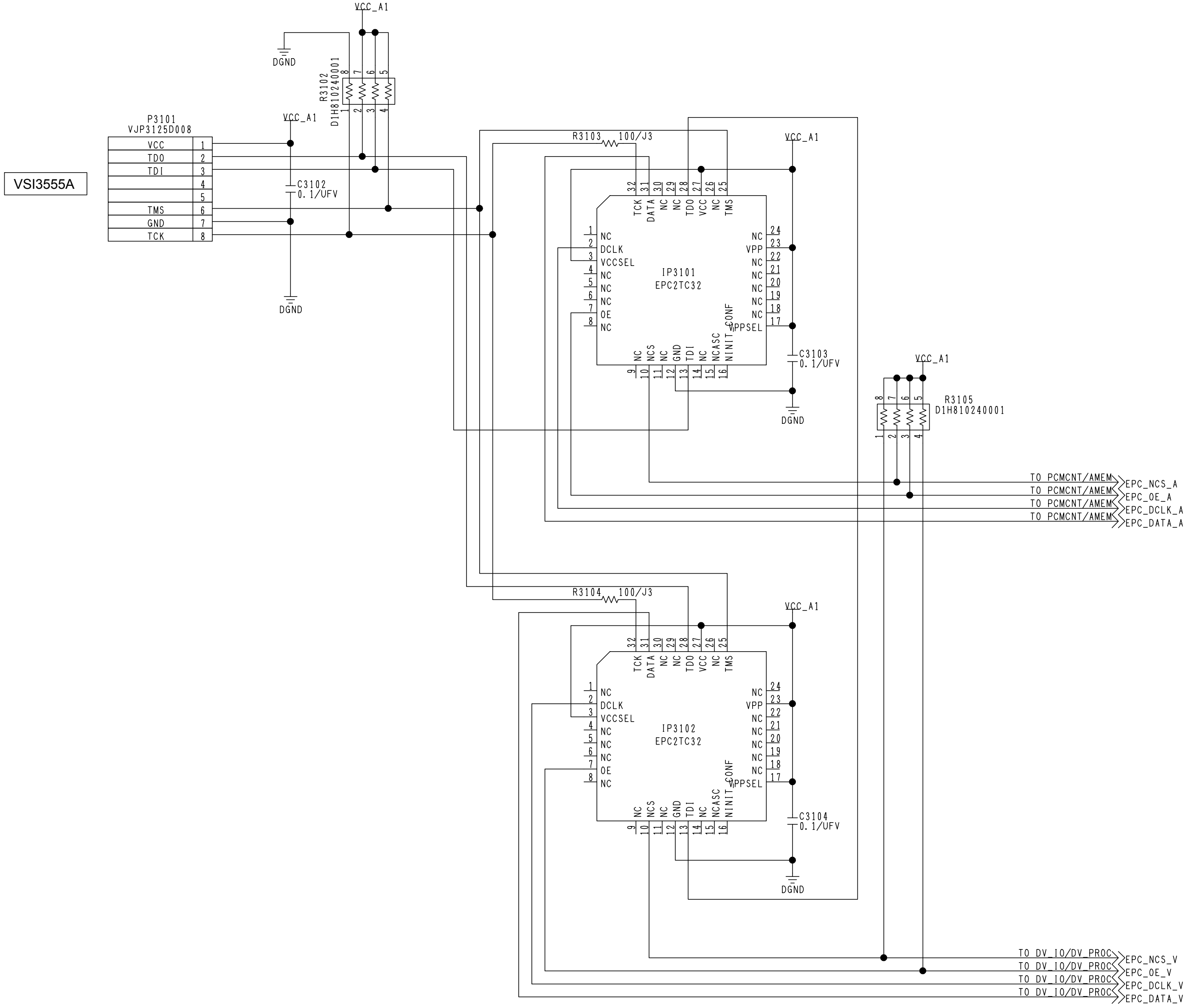
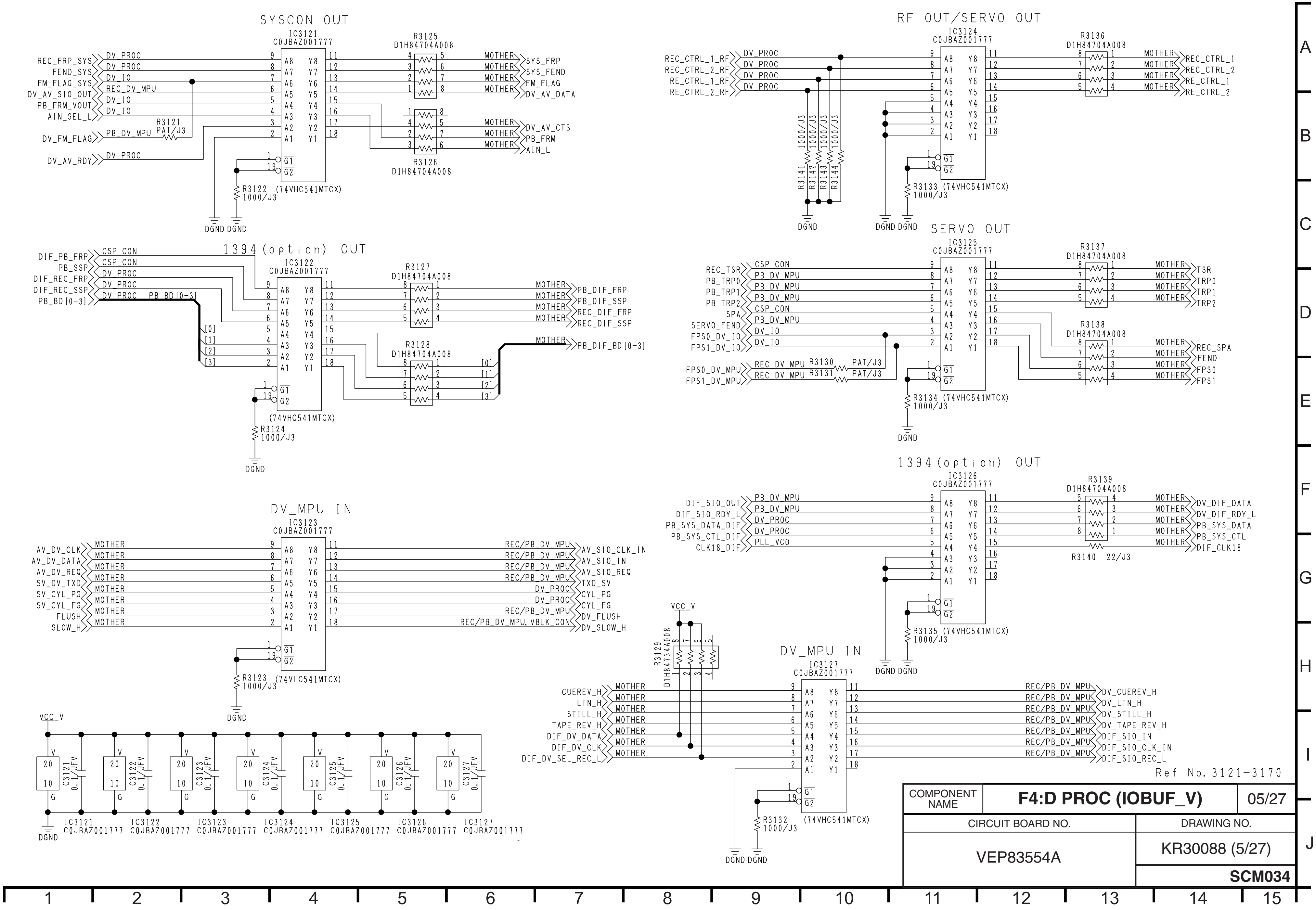
COMPONENT NAME	F4:D PROC (AVIF)	03/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (3/27)	
	SCM032	

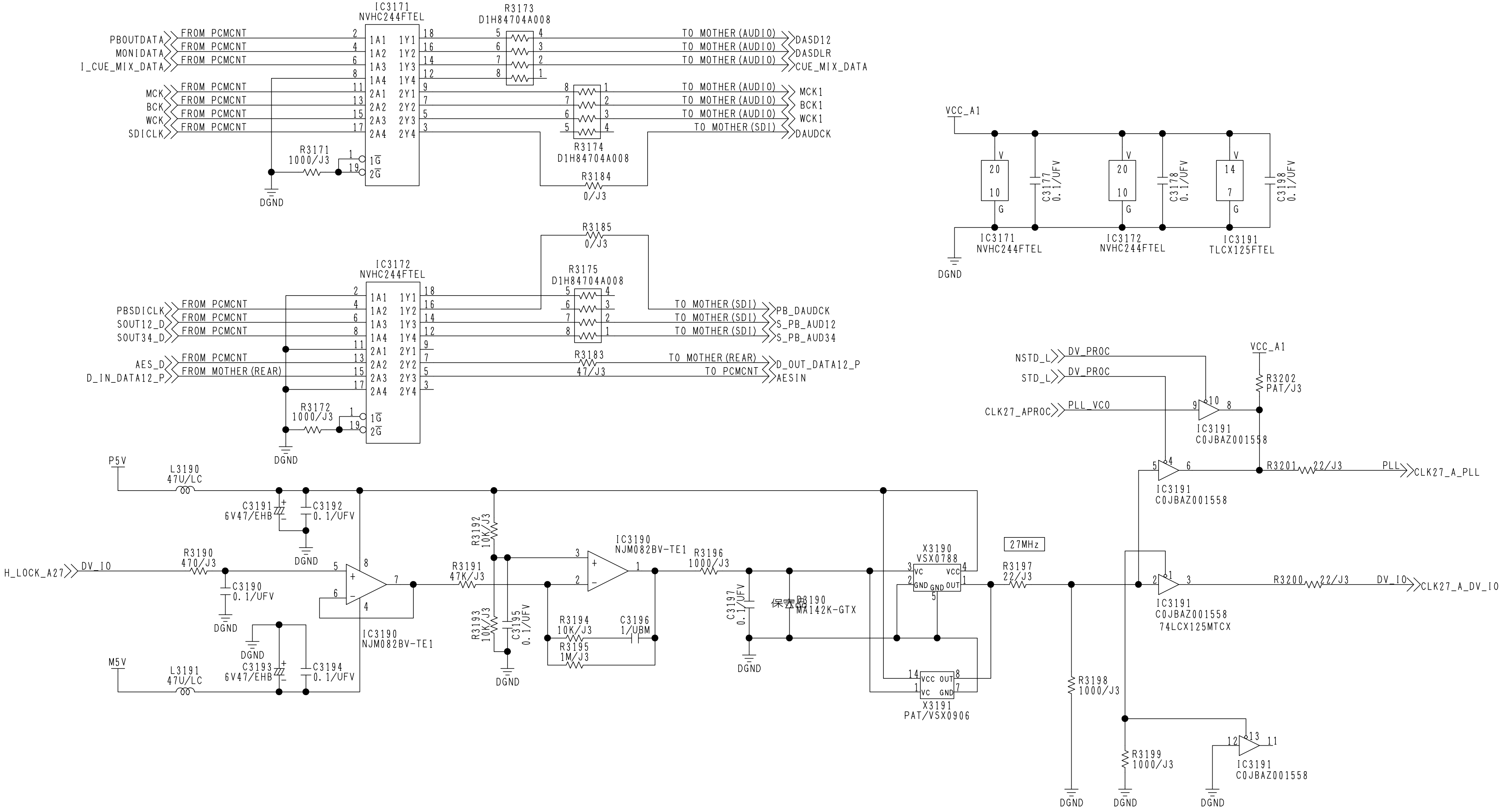

VSI3555A
P3101
VJP3125D008
VCC 1
TDO 2
TDI 3
4
5
TMS 6
GND 7
TCK 8
VCC_A1
DGND
C3102
0.1/UFV
R3102
D1H810240001
R3103 100/J3
R3104 100/J3
IP3101
EPC2TC32
IP3102
EPC2TC32
TCK 32
DATA 31
NC 30
NC 29
TDO 28
VCC 27
NC 26
TMS 25
1 NC
2 DCLK
3 VCCSEL
4 NC
5 NC
6 NC
7 OE
8 NC
NC 24
VPP 23
NC 22
NC 21
NC 20
NC 19
NC 18
VPPSEL 17
NINIT_CONF
9 NC
10 NCS
11 NC
12 GND
13 TDI
14 NC
15 NCASC
16 NINIT_CONF
C3103
0.1/UFV
C3104
0.1/UFV
R3105
D1H810240001
TO PCMCNT/AMEM EPC_NCS_A
TO PCMCNT/AMEM EPC_OE_A
TO PCMCNT/AMEM EPC_DCLK_A
TO PCMCNT/AMEM EPC_DATA_A
TO DV_IO/DV_PROC EPC_NCS_V
TO DV_IO/DV_PROC EPC_OE_V
TO DV_IO/DV_PROC EPC_DCLK_V
TO DV_IO/DV_PROC EPC_DATA_V

Ref. No. 3101-3120

COMPONENT NAME	F4:D PROC (ISP)	04/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (4/27)	
	SCM033	

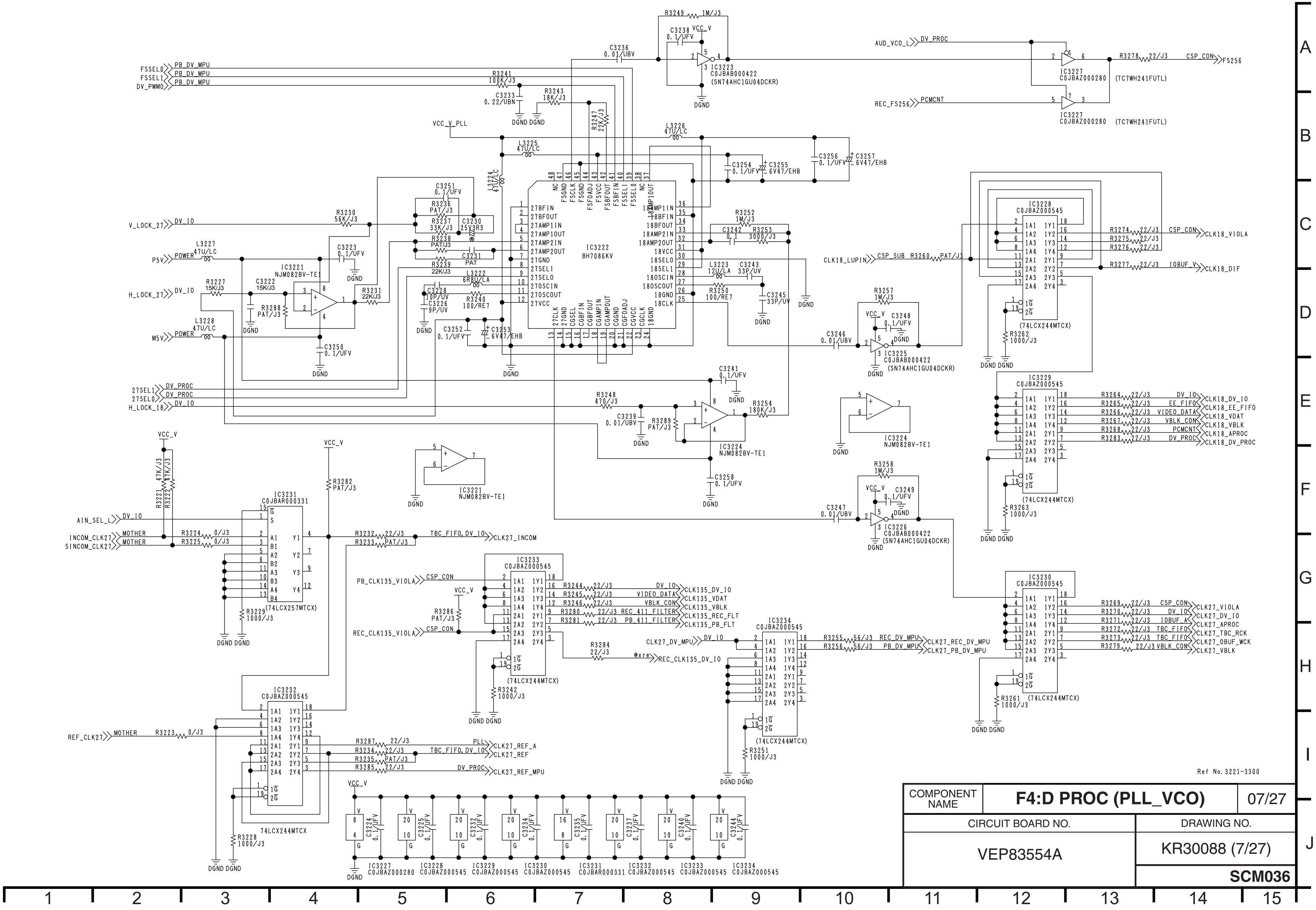

SYSCON OUT
IC3121
C0JBAZ001777
REC_FRP_SYS
FEND_SYS
FM_FLAG_SYS
DV_AV_SIO_OUT
PB_FRM_VOUT
AIN_SEL_L
DV_FM_FLAG
DV_AV_RDY
DV_PROC
DV_IO
REC_DV_MPU
PB_DV_MPU
R3121
PAT/J3
R3122
1000/J3
(74VHC541MTCX)
DGND
R3125
D1H84704A008
R3126
D1H84704A008
MOTHER
SYS_FRP
SYS_FEND
FM_FLAG
DV_AV_DATA
DV_AV_CTS
PB_FRM
AIN_L
RF OUT/SERVO OUT
IC3124
C0JBAZ001777
REC_CTRL_1_RF
REC_CTRL_2_RF
RE_CTRL_1_RF
RE_CTRL_2_RF
R3141
R3142
R3143
R3144
1000/J3
R3133
1000/J3
R3136
D1H84704A008
REC_CTRL_1
REC_CTRL_2
RE_CTRL_1
RE_CTRL_2
1394(option) OUT
IC3122
C0JBAZ001777
DIF_PB_FRP
PB_SSP
DIF_REC_FRP
DIF_REC_SSP
PB_BD[0-3]
CSP_CON
PB_BD[0-3]
[0]
[1]
[2]
[3]
R3124
1000/J3
R3127
D1H84704A008
R3128
D1H84704A008
PB_DIF_FRP
PB_DIF_SSP
REC_DIF_FRP
REC_DIF_SSP
PB_DIF_BD[0-3]
SERVO OUT
IC3125
C0JBAZ001777
REC_TSR
PB_TRP0
PB_TRP1
PB_TRP2
SPA
SERVO_FEND
FPS0_DV_IO
FPS1_DV_IO
FPS0_DV_MPU
FPS1_DV_MPU
R3130
R3131
PAT/J3
R3134
1000/J3
R3137
D1H84704A008
R3138
D1H84704A008
TSR
TRP0
TRP1
TRP2
REC_SPA
FEND
FPS0
FPS1
1394(option) OUT
IC3126
C0JBAZ001777
DIF_SIO_OUT
DIF_SIO_RDY_L
PB_SYS_DATA_DIF
PB_SYS_CTL_DIF
CLK18_DIF
PLL_VCO
R3135
1000/J3
R3139
D1H84704A008
R3140 22/J3
DV_DIF_DATA
DV_DIF_RDY_L
PB_SYS_DATA
PB_SYS_CTL
DIF_CLK18
DV_MPU IN
IC3123
C0JBAZ001777
AV_DV_CLK
AV_DV_DATA
AV_DV_REQ
SV_DV_TXD
SV_CYL_PG
SV_CYL_FG
FLUSH
SLOW_H
R3123
1000/J3
REC/PB_DV_MPU
REC/PB_DV_MPU,VBLK_CON
AV_SIO_CLK_IN
AV_SIO_IN
AV_SIO_REQ
TXD_SV
CYL_PG
CYL_FG
DV_FLUSH
DV_SLOW_H
VCC_V
R3129
D1H84734A008
DV_MPU IN
IC3127
C0JBAZ001777
CUEREV_H
LIN_H
STILL_H
TAPE_REV_H
DIF_DV_DATA
DIF_DV_CLK
DIF_DV_SEL_REC_L
R3132
1000/J3
DV_CUEREV_H
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DIF_SIO_IN
DIF_SIO_CLK_IN
DIF_SIO_REC_L
A8 A7 A6 A5 A4 A3 A2 A1
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
G1 G2
C3121 C3122 C3123 C3124 C3125 C3126 C3127
0.1/UFV
IC3121 IC3122 IC3123 IC3124 IC3125 IC3126 IC3127
DGND
Ref No. 3121-3170
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	F4:D PROC (IOBUF_V)	05/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (5/27)	
	SCM034	


IC3171
NVHC244FTEL
PBOUTDATA
MONIDATA
I_CUE_MIX_DATA
FROM PCMCNT
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G
2G
MCK
BCK
WCK
SDICLK
R3171
1000/J3
DGND
R3173
D1H84704A008
R3174
D1H84704A008
R3184
0/J3
TO MOTHER(AUDIO)
TO MOTHER(SDI)
DASD12
DASDLR
CUE_MIX_DATA
MCK1
BCK1
WCK1
DAUDCK
VCC_A1
IC3171
NVHC244FTEL
IC3172
NVHC244FTEL
IC3191
TLCX125FTEL
C3177
0.1/UFV
C3178
0.1/UFV
C3198
0.1/UFV
DGND
R3185
0/J3
IC3172
NVHC244FTEL
R3175
D1H84704A008
PBSDICLK
SOUT12_D
SOUT34_D
AES_D
D_IN_DATA12_P
FROM MOTHER(REAR)
R3172
1000/J3
R3183
47/J3
TO MOTHER(REAR)
TO PCMCNT
PB_DAUDCK
S_PB_AUD12
S_PB_AUD34
D_OUT_DATA12_P
AESIN
NSTD_L
STD_L
CLK27_APROC
DV_PROC
PLL_VCO
VCC_A1
R3202
PAT/J3
IC3191
C0JBAZ001558
R3201 22/J3
PLL
CLK27_A_PLL
P5V
L3190
47U/LC
C3191
6V47/EHB
C3192
0.1/UFV
H_LOCK_A27
DV_IO
R3190
470/J3
C3190
0.1/UFV
IC3190
NJM082BV-TE1
R3191
47K/J3
R3192
10K/J3
R3193
10K/J3
C3195
0.1/UFV
R3194
10K/J3
R3195
1M/J3
C3196
1/UBM
R3196
1000/J3
C3197
0.1/UFV
D3190
MA142K-GTX
保宏器
X3190
VSX0788
VC VCC GND GND OUT
27MHz
R3197
22/J3
X3191
PAT/VSX0906
VCC OUT VC GND
M5V
L3191
47U/LC
C3193
6V47/EHB
C3194
0.1/UFV
R3198
1000/J3
R3199
1000/J3
IC3191
C0JBAZ001558
74LCX125MTCX
R3200 22/J3
CLK27_A_DV_IO
IC3191
C0JBAZ001558

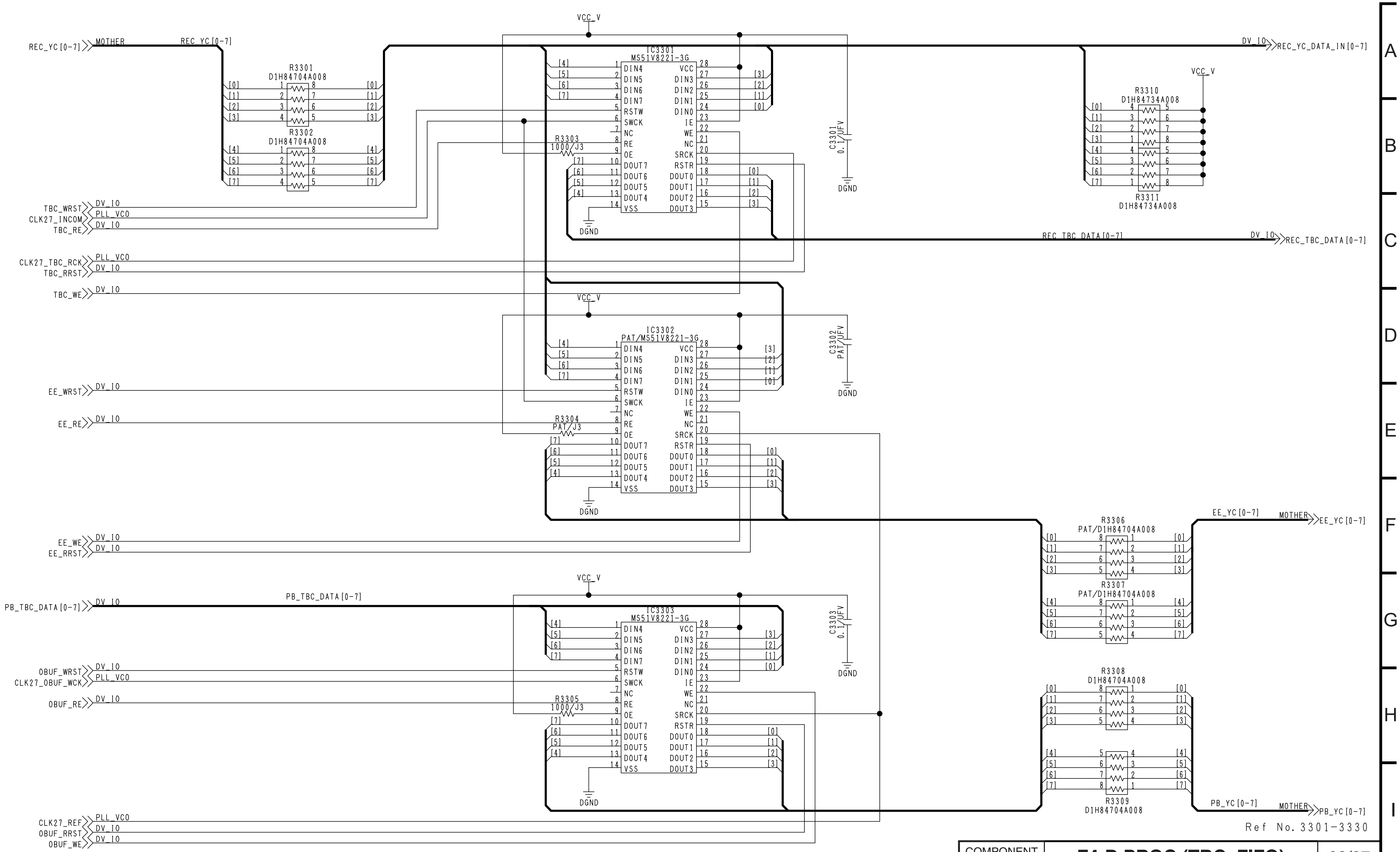
Ref. No. 3171-3220

COMPONENT NAME	F4:D PROC (IOBUF_A)	06/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (6/27)	
	SCM035	


IC3222 BH7086KV
IC3221 NJM082BV-TE1
IC3224 NJM082BV-TE1
IC3223 C0JBAB000422 (SN74AHC1GU04DCKR)
IC3225 C0JBAB000422 (SN74AHC1GU04DCKR)
IC3226 C0JBAB000422 (SN74AHC1GU04DCKR)
IC3227 C0JBAZ000280 (TC7WH241FUTL)
IC3228 C0JBAZ000545 (74LCX244MTCX)
IC3229 C0JBAZ000545 (74LCX244MTCX)
IC3230 C0JBAZ000545 (74LCX244MTCX)
IC3231 C0JBAR000331 (74LCX257MTCX)
IC3232 C0JBAZ000545 74LCX244MTCX
IC3233 C0JBAZ000545 (74LCX244MTCX)
IC3234 C0JBAZ000545 (74LCX244MTCX)
FSSEL0 PB_DV_MPU
FSSEL1 PB_DV_MPU
DV_PWM0 PB_DV_MPU
VCC_V_PLL
AUD_VCO_L DV_PROC
REC_FS256 PCMCNT
CSP_CON F5256
V_LOCK_27 DV_IO
P5V POWER
H_LOCK_27 DV_IO
M5V POWER
27SEL1 DV_PROC
27SEL0 DV_PROC
H_LOCK_18 DV_IO
CLK18_LUPIN CSP_SUB
CLK18_VIOLA
CLK18_DIF
CLK18_DV_IO
CLK18_EE_FIFO
CLK18_VDAT
CLK18_VBLK
CLK18_APROC
CLK18_DV_PROC
AIN_SEL_L DV_IO
INCOM_CLK27 MOTHER
SINCOM_CLK27 MOTHER
CLK27_INCOM
PB_CLK135_VIOLA CSP_CON
REC_CLK135_VIOLA CSP_CON
CLK135_DV_IO
CLK135_VDAT
CLK135_VBLK
CLK135_REC_FLT
CLK135_PB_FLT
REC_CLK135_DV_IO
CLK27_DV_MPU DV_IO
CLK27_REC_DV_MPU
CLK27_PB_DV_MPU
CLK27_VIOLA
CLK27_DV_IO
CLK27_APROC
CLK27_TBC_RCK
CLK27_OBUF_WCK
CLK27_VBLK
REF_CLK27 MOTHER
CLK27_REF_A
CLK27_REF
CLK27_REF_MPU
VCC_V
DGND
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

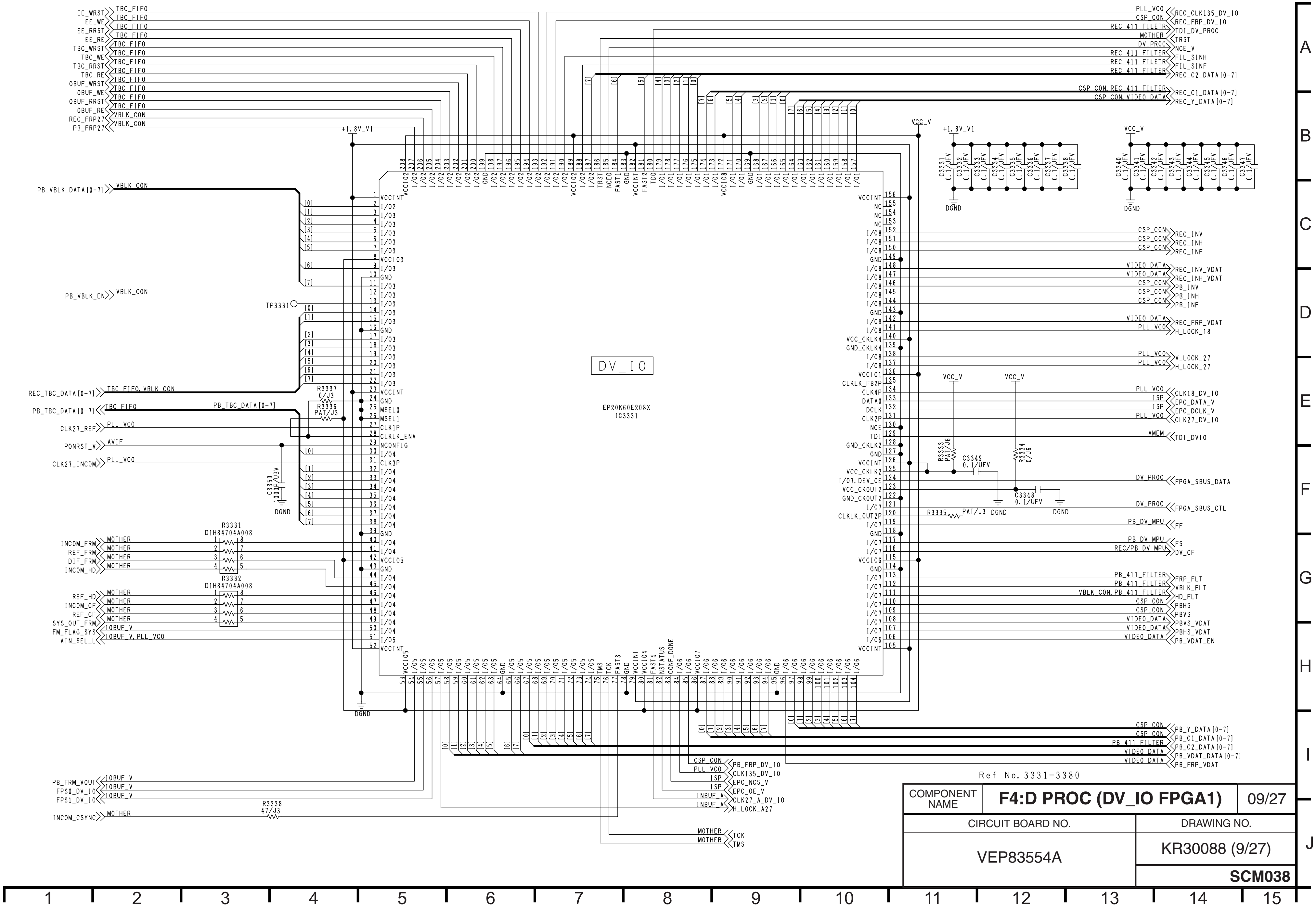
Ref No. 3221-3300

COMPONENT NAME	F4:D PROC (PLL_VCO)	07/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (7/27)	
	SCM036	


REC_YC[0-7]
MOTHER
REC_YC[0-7]
R3301
D1H84704A008
R3302
D1H84704A008
VCC_V
IC3301
MS51V8221-3G
DIN4
DIN5
DIN6
DIN7
RSTW
SWCK
NC
RE
OE
DOUT7
DOUT6
DOUT5
DOUT4
VSS
VCC
DIN3
DIN2
DIN1
DIN0
IE
WE
SRCK
RSTR
DOUT0
DOUT1
DOUT2
DOUT3
R3303
1000/J3
C3301
0.1/UFV
DGND
DV_IO
REC_YC_DATA_IN[0-7]
R3310
D1H84734A008
R3311
D1H84734A008
REC_TBC_DATA[0-7]
REC_TBC_DATA[0-7]
TBC_WRST
CLK27_INCOM
TBC_RE
PLL_VCO
CLK27_TBC_RCK
TBC_RRST
TBC_WE
IC3302
PAT/MS51V8221-3G
C3302
PAT/UFV
R3304
PAT/J3
EE_WRST
EE_RE
EE_WE
EE_RRST
R3306
PAT/D1H84704A008
R3307
PAT/D1H84704A008
EE_YC[0-7]
EE_YC[0-7]
PB_TBC_DATA[0-7]
PB_TBC_DATA[0-7]
IC3303
MS51V8221-3G
C3303
0.1/UFV
R3305
1000/J3
OBUF_WRST
CLK27_OBUF_WCK
OBUF_RE
R3308
D1H84704A008
R3309
D1H84704A008
PB_YC[0-7]
PB_YC[0-7]
CLK27_REF
OBUF_RRST
OBUF_WE
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

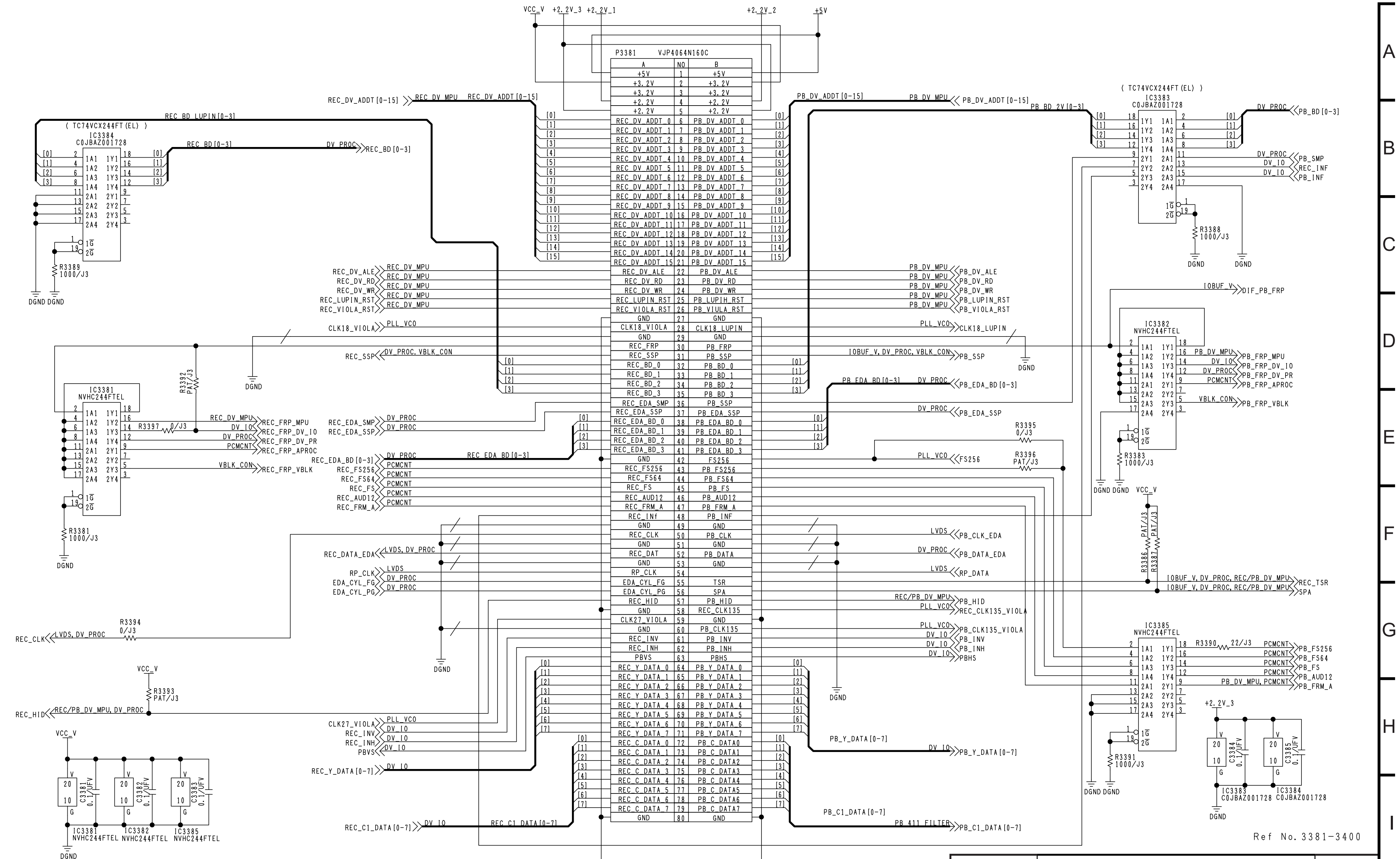
Ref No. 3301-3330

COMPONENT NAME	F4:D PROC (TBC_FIFO)	08/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (8/27)	
	SCM037	


DV_IO
EP20K60E208X
IC3331
EE_WRST
EE_WE
EE_RRST
EE_RE
TBC_WRST
TBC_WE
TBC_RRST
TBC_RE
OBUF_WRST
OBUF_WE
OBUF_RRST
OBUF_RE
REC_FRP27
PB_FRP27
TBC_FIFO
VBLK_CON
PB_VBLK_DATA[0-7]
PB_VBLK_EN
TP3331
REC_TBC_DATA[0-7]
TBC_FIFO,VBLK_CON
PB_TBC_DATA[0-7]
CLK27_REF
PONRST_V
AVIF
CLK27_INCOM
PLL_VCO
C3350 100P/UBV
DGND
R3337 0/J3
R3336 PAT/J3
R3331 D1H84704A008
R3332 D1H84704A008
INCOM_FRM
REF_FRM
DIF_FRM
INCOM_HD
REF_HD
INCOM_CF
REF_CF
SYS_OUT_FRM
FM_FLAG_SYS
AIN_SEL_L
MOTHER
IOBUF_V
IOBUF_V,PLL_VCO
PB_FRM_VOUT
FPS0_DV_IO
FPS1_DV_IO
INCOM_CSYNC
R3338 47/J3
+1.8V_V1
VCC_V
VCCINT
VCCIO2
VCCIO3
VCCIO5
VCCIO4
VCCIO7
VCCIO8
VCCIO1
VCCIO6
MSEL0
MSEL1
CLK1P
CLKLK_ENA
NCONFIG
CLK3P
TRST
TCK
TMS
TDI
TDO
NCEO
NCE
FAST1
FAST2
FAST3
FAST4
NSTATUS
CONF_DONE
VCC_CKLK4
GND_CKLK4
CLKLK_FB2P
CLK4P
DATA0
DCLK
CLK2P
GND_CKLK2
VCC_CKLK2
I/O7,DEV_OE
VCC_CKOUT2
GND_CKOUT2
CLKLK_OUT2P
PLL_VCO
REC_CLK135_DV_IO
CSP_CON
REC_FRP_DV_IO
REC 411 FILETR
TDI_DV_PROC
MOTHER
TRST
DV_PROC
NCE_V
REC 411 FILTER
FIL_SINH
FIL_SINF
REC_C2_DATA[0-7]
CSP_CON,REC 411 FILTER
REC_C1_DATA[0-7]
CSP_CON,VIDEO DATA
REC_Y_DATA[0-7]
C3331–C3347 0.1/UFV
REC_INV
REC_INH
REC_INF
VIDEO DATA
REC_INV_VDAT
REC_INH_VDAT
PB_INV
PB_INH
PB_INF
REC_FRP_VDAT
H_LOCK_18
V_LOCK_27
H_LOCK_27
CLK18_DV_IO
ISP
EPC_DATA_V
EPC_DCLK_V
CLK27_DV_IO
AMEM
TDI_DVIO
R3333 PAT/J6
R3334 0/J6
C3349 0.1/UFV
C3348 0.1/UFV
FPGA_SBUS_DATA
FPGA_SBUS_CTL
R3335 PAT/J3
PB_DV_MPU
FF
FS
REC/PB_DV_MPU
DV_CF
PB 411 FILTER
FRP_FLT
VBLK_FLT
VBLK_CON,PB 411 FILTER
HD_FLT
PBHS
PBVS
PBVS_VDAT
PBHS_VDAT
PB_VDAT_EN
PB_Y_DATA[0-7]
PB_C1_DATA[0-7]
PB_C2_DATA[0-7]
PB_VDAT_DATA[0-7]
PB_FRP_VDAT
PB_FRP_DV_IO
CLK135_DV_IO
EPC_NCS_V
EPC_OE_V
INBUF_A
CLK27_A_DV_IO
H_LOCK_A27
TCK
TMS

Ref No. 3331-3380

COMPONENT NAME	F4:D PROC (DV_IO FPGA1)	09/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (9/27)	
	SCM038	


VCC_V
+2.2V_3
+2.2V_1
+2.2V_2
+5V
P3381 VJP4064N160C
(TC74VCX244FT(EL))
IC3384
C0JBAZ001728
REC_BD_LUPIN[0-3]
REC_BD[0-3]
DV_PROC
REC_BD[0-3]
R3389
1000/J3
DGND
REC_DV_ADDT[0-15]
REC_DV_MPU
REC_DV_ADDT[0-15]
PB_DV_ADDT[0-15]
PB_DV_MPU
PB_DV_ADDT[0-15]
PB_BD_2V[0-3]
(TC74VCX244FT(EL))
IC3383
C0JBAZ001728
PB_BD[0-3]
PB_SMP
REC_INF
PB_INF
DV_IO
R3388
1000/J3
REC_DV_ALE
REC_DV_RD
REC_DV_WR
REC_LUPIN_RST
REC_VIOLA_RST
PB_DV_ALE
PB_DV_RD
PB_DV_WR
PB_LUPIN_RST
PB_VIOLA_RST
IOBUF_V
DIF_PB_FRP
CLK18_VIOLA
PLL_VCO
CLK18_LUPIN
REC_SSP
DV_PROC, VBLK_CON
IOBUF_V, DV_PROC, VBLK_CON
PB_SSP
IC3382
NVHC244FTEL
PB_FRP_MPU
PB_FRP_DV_IO
PB_FRP_DV_PR
PB_FRP_APROC
PB_FRP_VBLK
VBLK_CON
PCMCNT
R3392
PAT/J3
IC3381
NVHC244FTEL
R3397 0/J3
REC_FRP_MPU
REC_FRP_DV_IO
REC_FRP_DV_PR
REC_FRP_APROC
REC_FRP_VBLK
PB_EDA_BD[0-3]
PB_EDA_BD[0-3]
PB_EDA_SSP
REC_EDA_SMP
REC_EDA_SSP
REC_EDA_BD[0-3]
REC_EDA_BD[0-3]
R3395
0/J3
R3396
PAT/J3
FS256
R3383
1000/J3
R3381
1000/J3
REC_FS256
REC_FS64
REC_FS
REC_AUD12
REC_FRM_A
LVDS
PB_CLK_EDA
REC_DATA_EDA
LVDS, DV_PROC
PB_DATA_EDA
RP_CLK
EDA_CYL_FG
EDA_CYL_PG
RP_DATA
R3386
R3387
PAT/J3
IOBUF_V, DV_PROC, REC/PB_DV_MPU
REC_TSR
SPA
REC/PB_DV_MPU
PB_HID
REC_CLK135_VIOLA
PB_CLK135_VIOLA
PB_INV
PB_INH
PBHS
IC3385
NVHC244FTEL
R3390 22/J3
PB_FS256
PB_FS64
PB_FS
PB_AUD12
PB_FRM_A
PB_DV_MPU, PCMCNT
R3394
0/J3
REC_CLK
LVDS, DV_PROC
R3393
PAT/J3
REC_HID
REC/PB_DV_MPU, DV_PROC
CLK27_VIOLA
REC_INV
REC_INH
PBVS
REC_Y_DATA[0-7]
PB_Y_DATA[0-7]
PB_Y_DATA[0-7]
R3391
1000/J3
+2.2V_3
C3384
0.1/UFV
C3385
0.1/UFV
IC3383
C0JBAZ001728
IC3384
C0JBAZ001728
C3381
0.1/UFV
C3382
0.1/UFV
C3383
0.1/UFV
IC3381
NVHC244FTEL
IC3382
NVHC244FTEL
IC3385
NVHC244FTEL
REC_C1_DATA[0-7]
DV_IO
REC_C1_DATA[0-7]
PB_C1_DATA[0-7]
PB 411 FILTER
PB_C1_DATA[0-7]
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

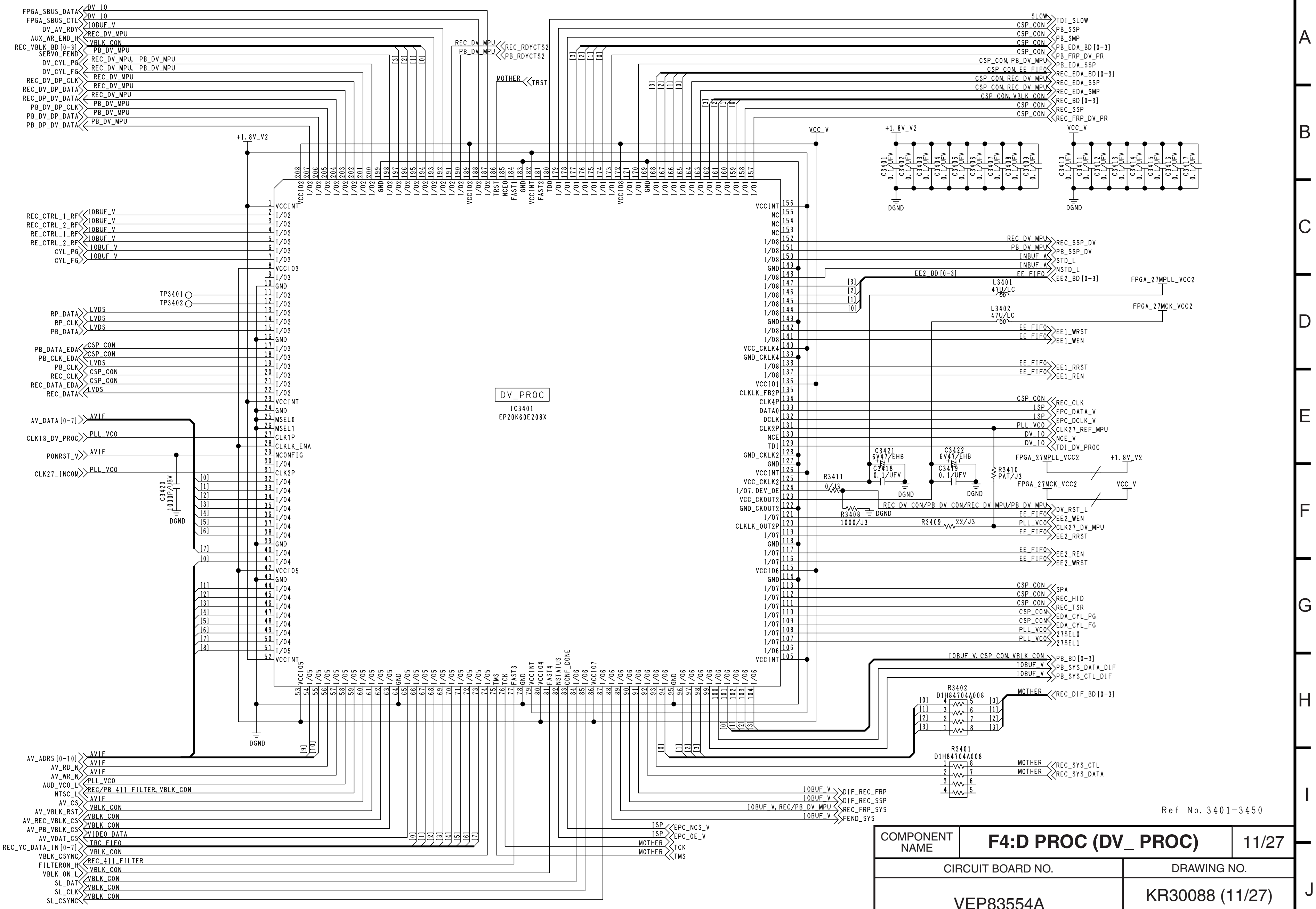
P3381 VJP4064N160C

A	NO	B
+5V	1	+5V
+3.2V	2	+3.2V
+3.2V	3	+3.2V
+2.2V	4	+2.2V
+2.2V	5	+2.2V
REC_DV_ADDT_0	6	PB_DV_ADDT_0
REC_DV_ADDT_1	7	PB_DV_ADDT_1
REC_DV_ADDT_2	8	PB_DV_ADDT_2
REC_DV_ADDT_3	9	PB_DV_ADDT_3
REC_DV_ADDT_4	10	PB_DV_ADDT_4
REC_DV_ADDT_5	11	PB_DV_ADDT_5
REC_DV_ADDT_6	12	PB_DV_ADDT_6
REC_DV_ADDT_7	13	PB_DV_ADDT_7
REC_DV_ADDT_8	14	PB_DV_ADDT_8
REC_DV_ADDT_9	15	PB_DV_ADDT_9
REC_DV_ADDT_10	16	PB_DV_ADDT_10
REC_DV_ADDT_11	17	PB_DV_ADDT_11
REC_DV_ADDT_12	18	PB_DV_ADDT_12
REC_DV_ADDT_13	19	PB_DV_ADDT_13
REC_DV_ADDT_14	20	PB_DV_ADDT_14
REC_DV_ADDT_15	21	PB_DV_ADDT_15
REC_DV_ALE	22	PB_DV_ALE
REC_DV_RD	23	PB_DV_RD
REC_DV_WR	24	PB_DV_WR
REC_LUPIN_RST	25	PB_LUPIH_RST
REC_VIOLA_RST	26	PB_VIULA_RST
GND	27	GND
CLK18_VIOLA	28	CLK18_LUPIN
GND	29	GND
REC_FRP	30	PB_FRP
REC_SSP	31	PB_SSP
REC_BD_0	32	PB_BD_0
REC_BD_1	33	PB_BD_1
REC_BD_2	34	PB_BD_2
REC_BD_3	35	PB_BD_3
REC_EDA_SMP	36	PB_SSP
REC_EDA_SSP	37	PB_EDA_SSP
REC_EDA_BD_0	38	PB_EDA_BD_0
REC_EDA_BD_1	39	PB_EDA_BD_1
REC_EDA_BD_2	40	PB_EDA_BD_2
REC_EDA_BD_3	41	PB_EDA_BD_3
GND	42	FS256
REC_FS256	43	PB_FS256
REC_FS64	44	PB_FS64
REC_FS	45	PB_FS
REC_AUD12	46	PB_AUD12
REC_FRM_A	47	PB_FRM_A
REC_INf	48	PB_INF
GND	49	GND
REC_CLK	50	PB_CLK
GND	51	GND
REC_DAT	52	PB_DATA
GND	53	GND
RP_CLK	54	
EDA_CYL_FG	55	TSR
EDA_CYL_PG	56	SPA
REC_HID	57	PB_HID
GND	58	REC_CLK135
CLK27_VIOLA	59	GND
GND	60	PB_CLK135
REC_INV	61	PB_INV
REC_INH	62	PB_INH
PBVS	63	PBHS
REC_Y_DATA_0	64	PB_Y_DATA_0
REC_Y_DATA_1	65	PB_Y_DATA_1
REC_Y_DATA_2	66	PB_Y_DATA_2
REC_Y_DATA_3	67	PB_Y_DATA_3
REC_Y_DATA_4	68	PB_Y_DATA_4
REC_Y_DATA_5	69	PB_Y_DATA_5
REC_Y_DATA_6	70	PB_Y_DATA_6
REC_Y_DATA_7	71	PB_Y_DATA_7
REC_C_DATA_0	72	PB_C_DATA0
REC_C_DATA_1	73	PB_C_DATA1
REC_C_DATA_2	74	PB_C_DATA2
REC_C_DATA_3	75	PB_C_DATA3
REC_C_DATA_4	76	PB_C_DATA4
REC_C_DATA_5	77	PB_C_DATA5
REC_C_DATA_6	78	PB_C_DATA6
REC_C_DATA_7	79	PB_C_DATA7
GND	80	GND

Ref No. 3381-3400

COMPONENT NAME	F4:D PROC (CSP_CON)	10/27

CIRCUIT BOARD NO.	DRAWING NO.
VEP83554A	KR30088 (10/27)
	SCM039


FPGA_SBUS_DATA
FPGA_SBUS_CTL
DV_AV_RDY
AUX_WR_END_H
REC_VBLK_BD[0-3]
SERVO_FEND
DV_CYL_PG
DV_CYL_FG
REC_DV_DP_CLK
REC_DV_DP_DATA
REC_DP_DV_DATA
PB_DV_DP_CLK
PB_DV_DP_DATA
PB_DP_DV_DATA
DV_IO
IOBUF_V
REC_DV_MPU
VBLK_CON
PB_DV_MPU
REC_DV_MPU, PB_DV_MPU
REC_RDYCTS2
PB_RDYCTS2
MOTHER
TRST
+1.8V_V2
VCC_V
TDI_SLOW
PB_SSP
PB_SMP
PB_EDA_BD[0-3]
PB_FRP_DV_PR
PB_EDA_SSP
REC_EDA_BD[0-3]
REC_EDA_SSP
REC_EDA_SMP
REC_BD[0-3]
REC_SSP
REC_FRP_DV_PR
SLOW
CSP_CON
CSP_CON, PB_DV_MPU
CSP_CON, EE_FIFO
CSP_CON, REC_DV_MPU
CSP_CON, VBLK_CON
C3401 – C3409 0.1/UFV
C3410 – C3417 0.1/UFV
DGND
REC_CTRL_1_RF
REC_CTRL_2_RF
RE_CTRL_1_RF
RE_CTRL_2_RF
CYL_PG
CYL_FG
TP3401
TP3402
RP_DATA
RP_CLK
PB_DATA
LVDS
PB_DATA_EDA
PB_CLK_EDA
PB_CLK
REC_CLK
REC_DATA_EDA
REC_DATA
AV_DATA[0-7]
AVIF
CLK18_DV_PROC
PLL_VCO
PONRST_V
CLK27_INCOM
C3420 1000P/UBV
DV_PROC
IC3401
EP20K60E208X
VCCINT
VCCIO
GND
NC
MSEL0
MSEL1
CLK1P
CLKLK_ENA
NCONFIG
CLK3P
VCC_CKLK4
GND_CKLK4
CLKLK_FB2P
CLK4P
DATA0
DCLK
CLK2P
NCE
TDI
GND_CKLK2
VCC_CKLK2
I/O7, DEV_OE
VCC_CKOUT2
GND_CKOUT2
CLKLK_OUT2P
TMS
TCK
FAST3
FAST4
NSTATUS
CONF_DONE
TDO
NCEO
FAST1
FAST2
REC_SSP_DV
PB_SSP_DV
INBUF_A
STD_L
NSTD_L
EE_FIFO
EE2_BD[0-3]
L3401 47U/LC
L3402 47U/LC
FPGA_27MPLL_VCC2
FPGA_27MCK_VCC2
EE1_WRST
EE1_WEN
EE1_RRST
EE1_REN
REC_CLK
ISP
EPC_DATA_V
EPC_DCLK_V
CLK27_REF_MPU
NCE_V
TDI_DV_PROC
C3421 6V47/EHB
C3422 6V47/EHB
C3418 0.1/UFV
C3419 0.1/UFV
R3410 PAT/J3
R3411 0/J3
R3408 1000/J3
R3409 22/J3
REC_DV_CON/PB_DV_CON/REC_DV_MPU/PB_DV_MPU
DV_RST_L
EE2_WEN
CLK27_DV_MPU
EE2_RRST
EE2_REN
EE2_WRST
SPA
REC_HID
REC_TSR
EDA_CYL_PG
EDA_CYL_FG
27SEL0
27SEL1
IOBUF_V, CSP_CON, VBLK_CON
PB_BD[0-3]
PB_SYS_DATA_DIF
PB_SYS_CTL_DIF
R3402 D1H84704A008
REC_DIF_BD[0-3]
R3401 D1H84704A008
REC_SYS_CTL
REC_SYS_DATA
DIF_REC_FRP
DIF_REC_SSP
REC_FRP_SYS
FEND_SYS
IOBUF_V, REC/PB_DV_MPU
EPC_NCS_V
EPC_OE_V
TCK
TMS
AV_ADRS[0-10]
AV_RD_N
AV_WR_N
AUD_VCO_L
NTSC_L
AV_CS
AV_VBLK_RST
AV_REC_VBLK_CS
AV_PB_VBLK_CS
AV_VDAT_CS
REC_YC_DATA_IN[0-7]
VBLK_CSYNC
FILTERON_H
VBLK_ON_L
SL_DAT
SL_CLK
SL_CSYNC
REC/PB 411 FILTER, VBLK_CON
VIDEO_DATA
TBC_FIFO
REC 411 FILTER
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
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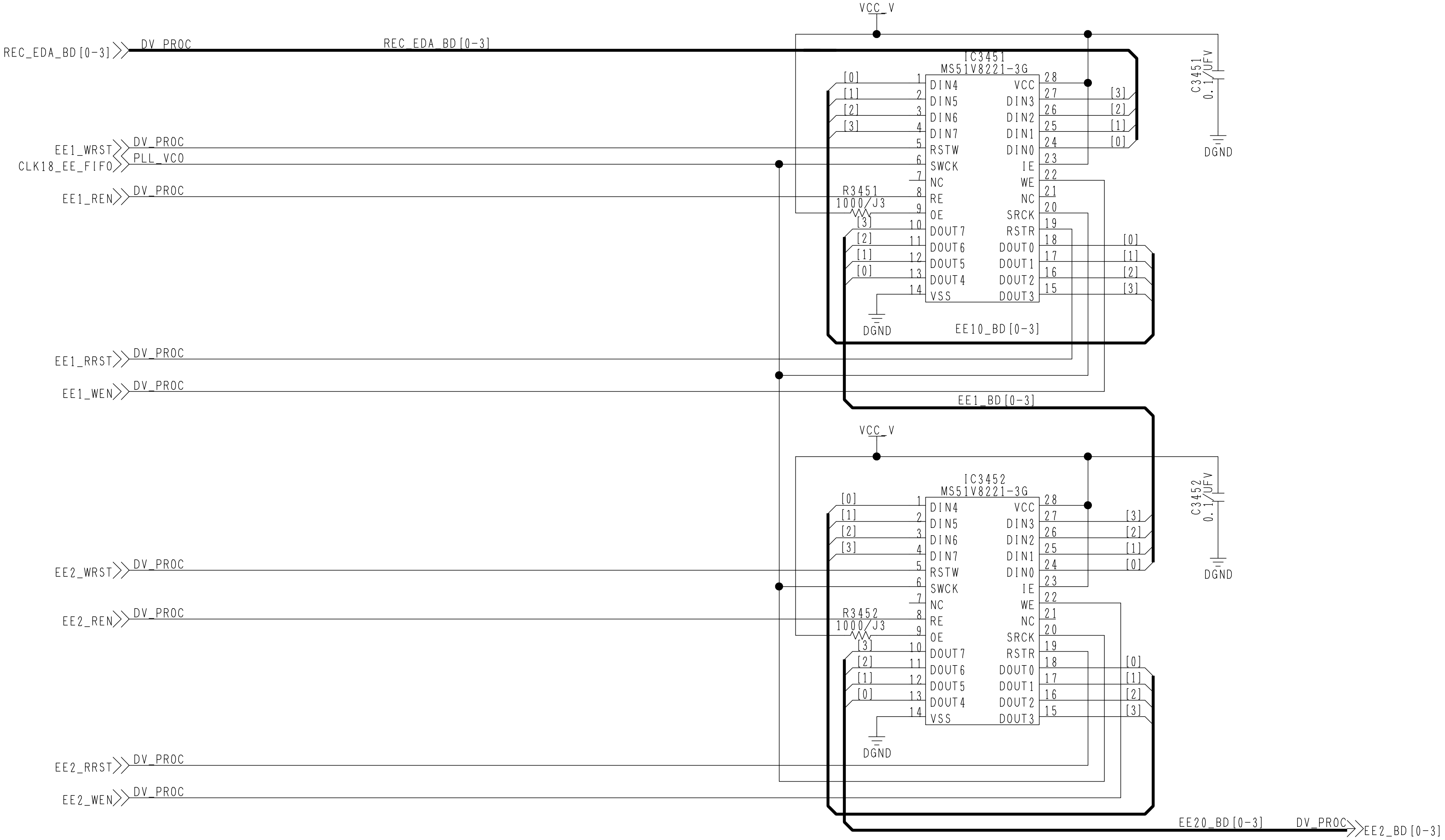
11
12
13
14
15

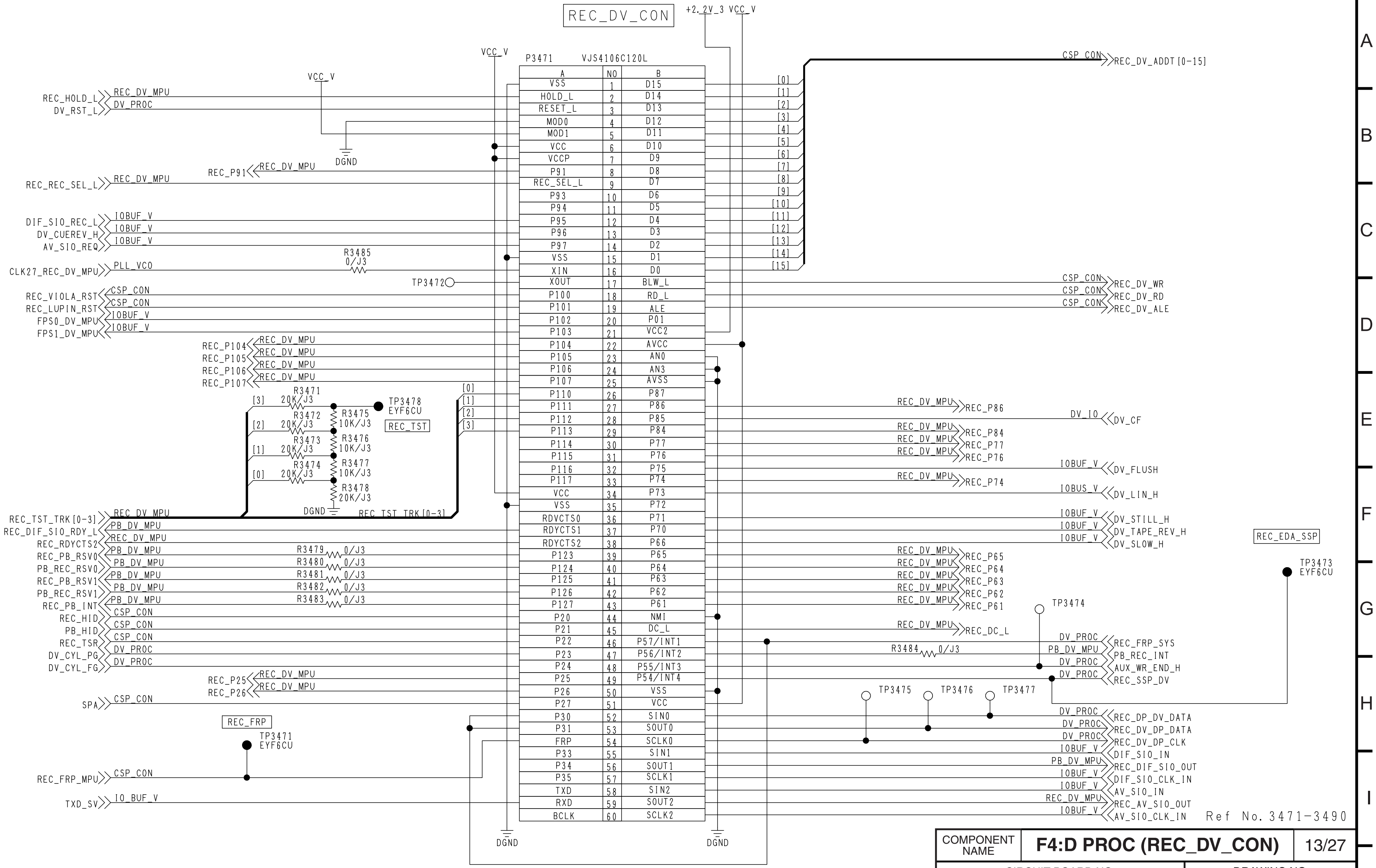
Ref No. 3401-3450

COMPONENT NAME	F4:D PROC (DV_ PROC)	11/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (11/27)	
	SCM040	

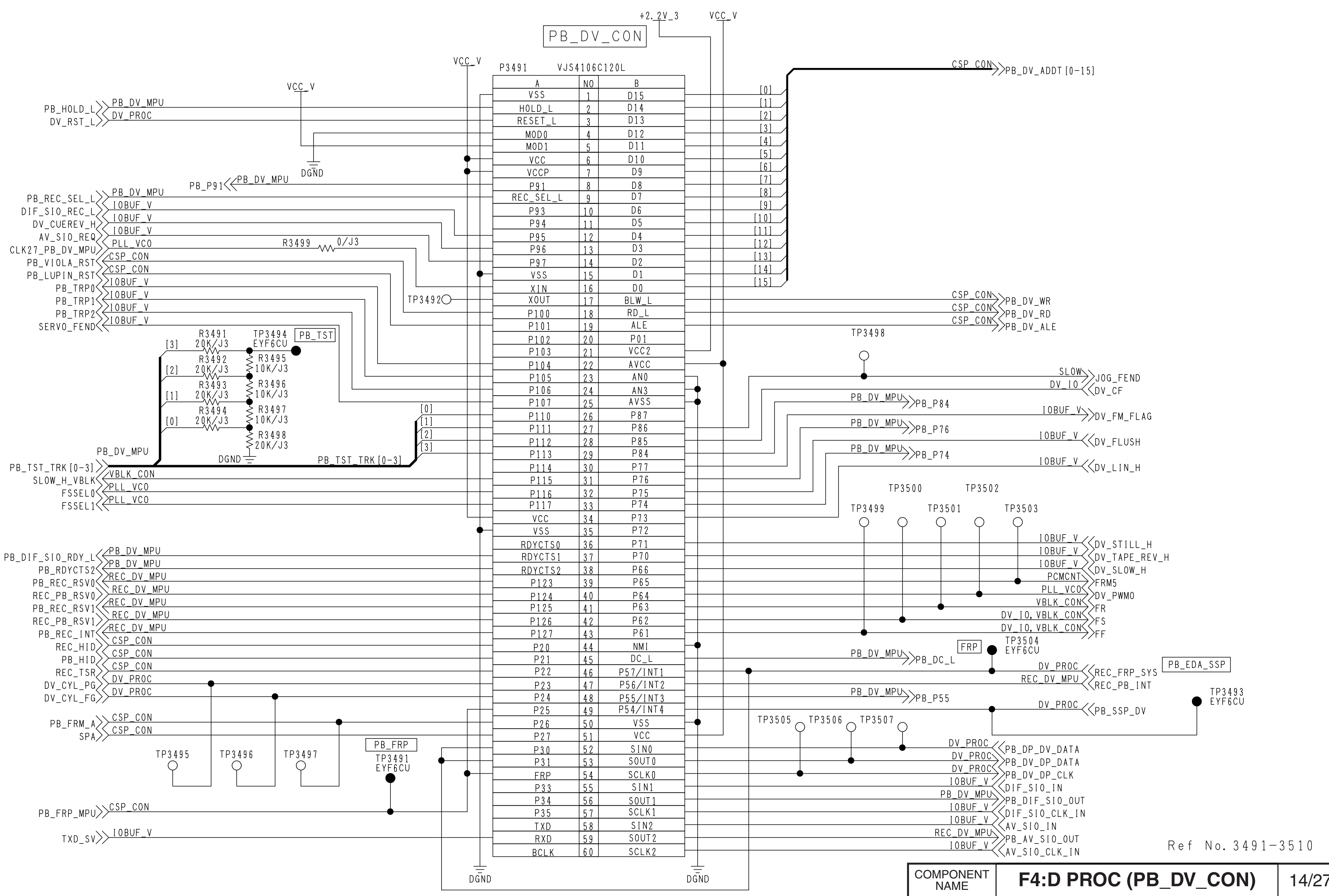

REC_EDA_BD[0-3]
DV_PROC
REC_EDA_BD[0-3]
VCC_V
IC3451
MS51V8221-3G
DIN4
DIN5
DIN6
DIN7
RSTW
SWCK
NC
RE
OE
DOUT7
DOUT6
DOUT5
DOUT4
VSS
VCC
DIN3
DIN2
DIN1
DIN0
IE
WE
NC
SRCK
RSTR
DOUT0
DOUT1
DOUT2
DOUT3
C3451
0.1/UFV
DGND
EE1_WRST
DV_PROC
CLK18_EE_FIFO
PLL_VCO
EE1_REN
DV_PROC
R3451
1000/J3
DGND
EE10_BD[0-3]
EE1_RRST
DV_PROC
EE1_WEN
DV_PROC
EE1_BD[0-3]
VCC_V
IC3452
MS51V8221-3G
C3452
0.1/UFV
DGND
EE2_WRST
DV_PROC
EE2_REN
DV_PROC
R3452
1000/J3
DGND
EE2_RRST
DV_PROC
EE2_WEN
DV_PROC
EE20_BD[0-3]
DV_PROC
EE2_BD[0-3]
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Ref No. 3451-3470

COMPONENT NAME	F4:D PROC (EE_FIFO)	12/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (12/27)	
	SCM041	

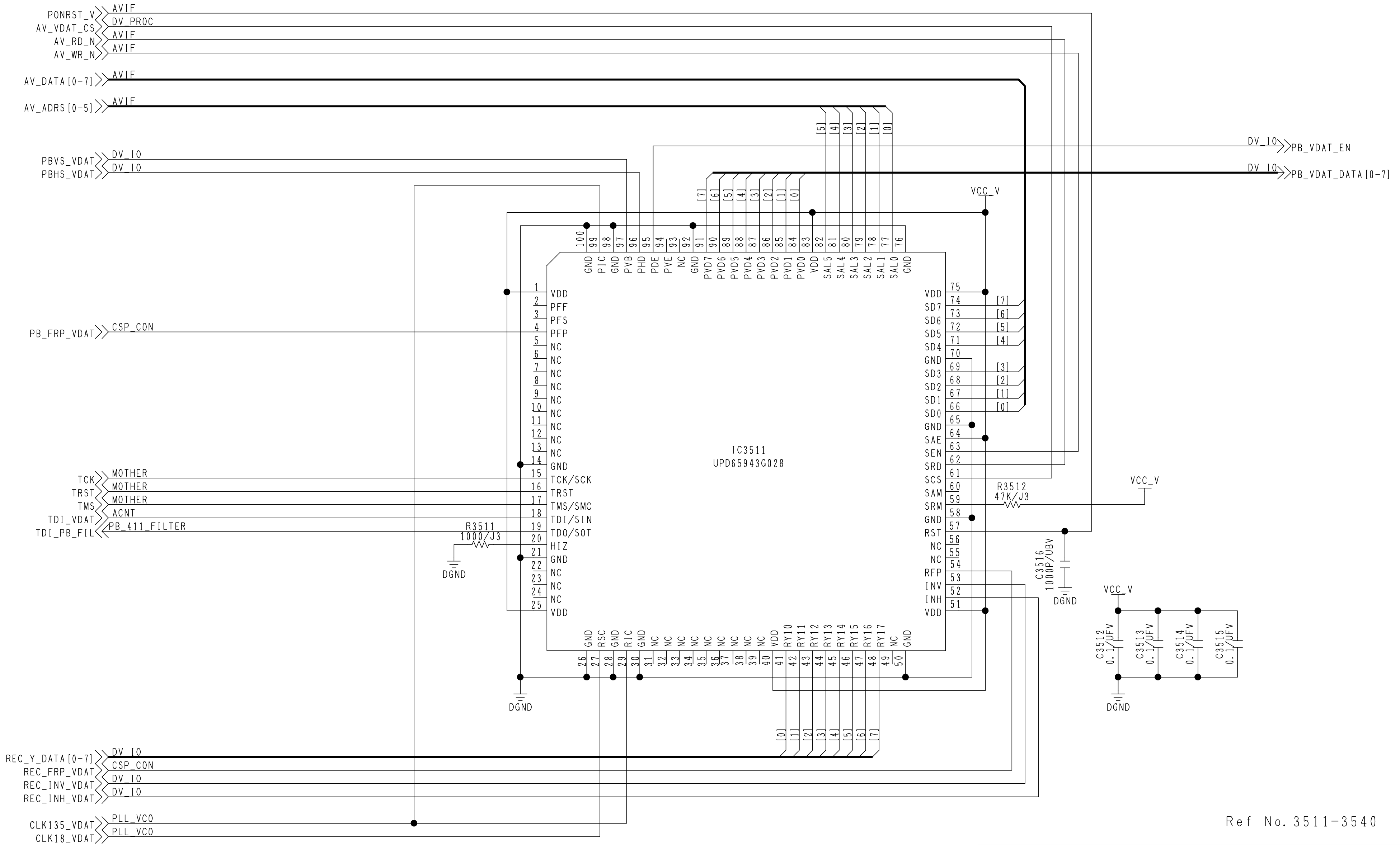

REC_DV_CON
+2.2V_3
VCC_V
VCC_V
P3471
VJS4106C120L
A
NO
B
1 VSS D15
2 HOLD_L D14
3 RESET_L D13
4 MOD0 D12
5 MOD1 D11
6 VCC D10
7 VCCP D9
8 P91 D8
9 REC_SEL_L D7
10 P93 D6
11 P94 D5
12 P95 D4
13 P96 D3
14 P97 D2
15 VSS D1
16 XIN D0
17 XOUT BLW_L
18 P100 RD_L
19 P101 ALE
20 P102 P01
21 P103 VCC2
22 P104 AVCC
23 P105 AN0
24 P106 AN3
25 P107 AVSS
26 P110 P87
27 P111 P86
28 P112 P85
29 P113 P84
30 P114 P77
31 P115 P76
32 P116 P75
33 P117 P74
34 VCC P73
35 VSS P72
36 RDYCTS0 P71
37 RDYCTS1 P70
38 RDYCTS2 P66
39 P123 P65
40 P124 P64
41 P125 P63
42 P126 P62
43 P127 P61
44 P20 NMI
45 P21 DC_L
46 P22 P57/INT1
47 P23 P56/INT2
48 P24 P55/INT3
49 P25 P54/INT4
50 P26 VSS
51 P27 VCC
52 P30 SIN0
53 P31 SOUT0
54 FRP SCLK0
55 P33 SIN1
56 P34 SOUT1
57 P35 SCLK1
58 TXD SIN2
59 RXD SOUT2
60 BCLK SCLK2
REC_HOLD_L REC_DV_MPU
DV_RST_L DV_PROC
VCC_V
DGND
REC_P91 REC_DV_MPU
REC_REC_SEL_L REC_DV_MPU
DIF_SIO_REC_L IOBUF_V
DV_CUEREV_H IOBUF_V
AV_SIO_REQ IOBUF_V
R3485
0/J3
CLK27_REC_DV_MPU PLL_VCO
TP3472
REC_VIOLA_RST CSP_CON
REC_LUPIN_RST CSP_CON
FPS0_DV_MPU IOBUF_V
FPS1_DV_MPU IOBUF_V
REC_P104 REC_DV_MPU
REC_P105 REC_DV_MPU
REC_P106 REC_DV_MPU
REC_P107 REC_DV_MPU
R3471 20K/J3
R3472 20K/J3
R3473 20K/J3
R3474 20K/J3
R3475 10K/J3
R3476 10K/J3
R3477 10K/J3
R3478 20K/J3
TP3478 EYF6CU
REC_TST
[0] [1] [2] [3]
DGND
REC_TST_TRK[0-3]
REC_TST_TRK[0-3] REC_DV_MPU
REC_DIF_SIO_RDY_L PB_DV_MPU
REC_RDYCTS2 REC_DV_MPU
REC_PB_RSV0 PB_DV_MPU
PB_REC_RSV0 PB_DV_MPU
REC_PB_RSV1 PB_DV_MPU
PB_REC_RSV1 PB_DV_MPU
REC_PB_INT PB_DV_MPU
R3479 0/J3
R3480 0/J3
R3481 0/J3
R3482 0/J3
R3483 0/J3
REC_HID CSP_CON
PB_HID CSP_CON
REC_TSR CSP_CON
DV_CYL_PG DV_PROC
DV_CYL_FG DV_PROC
REC_P25 REC_DV_MPU
REC_P26 REC_DV_MPU
SPA CSP_CON
REC_FRP
TP3471 EYF6CU
REC_FRP_MPU CSP_CON
TXD_SV IO_BUF_V
DGND
DGND
CSP_CON REC_DV_ADDT[0-15]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]
CSP_CON REC_DV_WR
CSP_CON REC_DV_RD
CSP_CON REC_DV_ALE
REC_DV_MPU REC_P86
DV_IO DV_CF
REC_DV_MPU REC_P84
REC_DV_MPU REC_P77
REC_DV_MPU REC_P76
IOBUF_V DV_FLUSH
REC_DV_MPU REC_P74
IOBUS_V DV_LIN_H
IOBUF_V DV_STILL_H
IOBUF_V DV_TAPE_REV_H
IOBUF_V DV_SLOW_H
REC_EDA_SSP
TP3473 EYF6CU
REC_DV_MPU REC_P65
REC_DV_MPU REC_P64
REC_DV_MPU REC_P63
REC_DV_MPU REC_P62
REC_DV_MPU REC_P61
TP3474
REC_DV_MPU REC_DC_L
DV_PROC REC_FRP_SYS
R3484 0/J3
PB_DV_MPU PB_REC_INT
DV_PROC AUX_WR_END_H
DV_PROC REC_SSP_DV
TP3475
TP3476
TP3477
DV_PROC REC_DP_DV_DATA
DV_PROC REC_DV_DP_DATA
DV_PROC REC_DV_DP_CLK
IOBUF_V DIF_SIO_IN
PB_DV_MPU REC_DIF_SIO_OUT
IOBUF_V DIF_SIO_CLK_IN
IOBUF_V AV_SIO_IN
REC_DV_MPU REC_AV_SIO_OUT
IOBUF_V AV_SIO_CLK_IN
Ref No. 3471-3490
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	F4:D PROC (REC_DV_CON)	13/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (13/27)	
	SCM042	


PB_DV_CON
+2.2V_3
VCC_V
P3491 VJS4106C120L
A NO B
VSS 1 D15
HOLD_L 2 D14
RESET_L 3 D13
MOD0 4 D12
MOD1 5 D11
VCC 6 D10
VCCP 7 D9
P91 8 D8
REC_SEL_L 9 D7
P93 10 D6
P94 11 D5
P95 12 D4
P96 13 D3
P97 14 D2
VSS 15 D1
XIN 16 D0
XOUT 17 BLW_L
P100 18 RD_L
P101 19 ALE
P102 20 P01
P103 21 VCC2
P104 22 AVCC
P105 23 AN0
P106 24 AN3
P107 25 AVSS
P110 26 P87
P111 27 P86
P112 28 P85
P113 29 P84
P114 30 P77
P115 31 P76
P116 32 P75
P117 33 P74
VCC 34 P73
VSS 35 P72
RDYCTS0 36 P71
RDYCTS1 37 P70
RDYCTS2 38 P66
P123 39 P65
P124 40 P64
P125 41 P63
P126 42 P62
P127 43 P61
P20 44 NMI
P21 45 DC_L
P22 46 P57/INT1
P23 47 P56/INT2
P24 48 P55/INT3
P25 49 P54/INT4
P26 50 VSS
P27 51 VCC
P30 52 SIN0
P31 53 SOUT0
FRP 54 SCLK0
P33 55 SIN1
P34 56 SOUT1
P35 57 SCLK1
TXD 58 SIN2
RXD 59 SOUT2
BCLK 60 SCLK2
PB_HOLD_L PB_DV_MPU
DV_RST_L DV_PROC
DGND
PB_P91 PB_DV_MPU
PB_REC_SEL_L PB_DV_MPU
DIF_SIO_REC_L IOBUF_V
DV_CUEREV_H IOBUF_V
AV_SIO_REQ IOBUF_V
CLK27_PB_DV_MPU PLL_VCO
R3499 0/J3
PB_VIOLA_RST CSP_CON
PB_LUPIN_RST CSP_CON
PB_TRP0 IOBUF_V
PB_TRP1 IOBUF_V
PB_TRP2 IOBUF_V
SERVO_FEND IOBUF_V
TP3492
R3491 20K/J3
R3492 20K/J3
R3493 20K/J3
R3494 20K/J3
R3495 10K/J3
R3496 10K/J3
R3497 10K/J3
R3498 20K/J3
TP3494 EYF6CU
PB_TST
[3] [2] [1] [0]
PB_DV_MPU
PB_TST_TRK[0-3]
PB_TST_TRK[0-3]
SLOW_H_VBLK VBLK_CON
FSSEL0 PLL_VCO
FSSEL1 PLL_VCO
PB_DIF_SIO_RDY_L PB_DV_MPU
PB_RDYCTS2 PB_DV_MPU
PB_REC_RSV0 REC_DV_MPU
REC_PB_RSV0 REC_DV_MPU
PB_REC_RSV1 REC_DV_MPU
REC_PB_RSV1 REC_DV_MPU
PB_REC_INT REC_DV_MPU
REC_HID CSP_CON
PB_HID CSP_CON
REC_TSR CSP_CON
DV_CYL_PG DV_PROC
DV_CYL_FG DV_PROC
PB_FRM_A CSP_CON
SPA CSP_CON
TP3495 TP3496 TP3497
PB_FRP
TP3491 EYF6CU
PB_FRP_MPU CSP_CON
TXD_SV IOBUF_V
CSP_CON PB_DV_ADDT[0-15]
[0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [10] [11] [12] [13] [14] [15]
CSP_CON PB_DV_WR
CSP_CON PB_DV_RD
CSP_CON PB_DV_ALE
TP3498
SLOW JOG_FEND
DV_IO DV_CF
PB_DV_MPU PB_P84
IOBUF_V DV_FM_FLAG
PB_DV_MPU PB_P76
IOBUF_V DV_FLUSH
PB_DV_MPU PB_P74
IOBUF_V DV_LIN_H
TP3500 TP3502
TP3499 TP3501 TP3503
IOBUF_V DV_STILL_H
IOBUF_V DV_TAPE_REV_H
IOBUF_V DV_SLOW_H
PCMCNT FRM5
PLL_VCO DV_PWM0
VBLK_CON FR
DV_IO, VBLK_CON FS
DV_IO, VBLK_CON FF
FRP
TP3504 EYF6CU
PB_DV_MPU PB_DC_L
DV_PROC REC_FRP_SYS
REC_DV_MPU REC_PB_INT
PB_EDA_SSP
PB_DV_MPU PB_P55
DV_PROC PB_SSP_DV
TP3493 EYF6CU
TP3505 TP3506 TP3507
DV_PROC PB_DP_DV_DATA
DV_PROC PB_DV_DP_DATA
DV_PROC PB_DV_DP_CLK
IOBUF_V DIF_SIO_IN
PB_DV_MPU PB_DIF_SIO_OUT
IOBUF_V DIF_SIO_CLK_IN
IOBUF_V AV_SIO_IN
REC_DV_MPU PB_AV_SIO_OUT
IOBUF_V AV_SIO_CLK_IN
DGND
DGND

Ref No. 3491-3510

COMPONENT NAME	F4:D PROC (PB_DV_CON)	14/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (14/27)	
	SCM043	

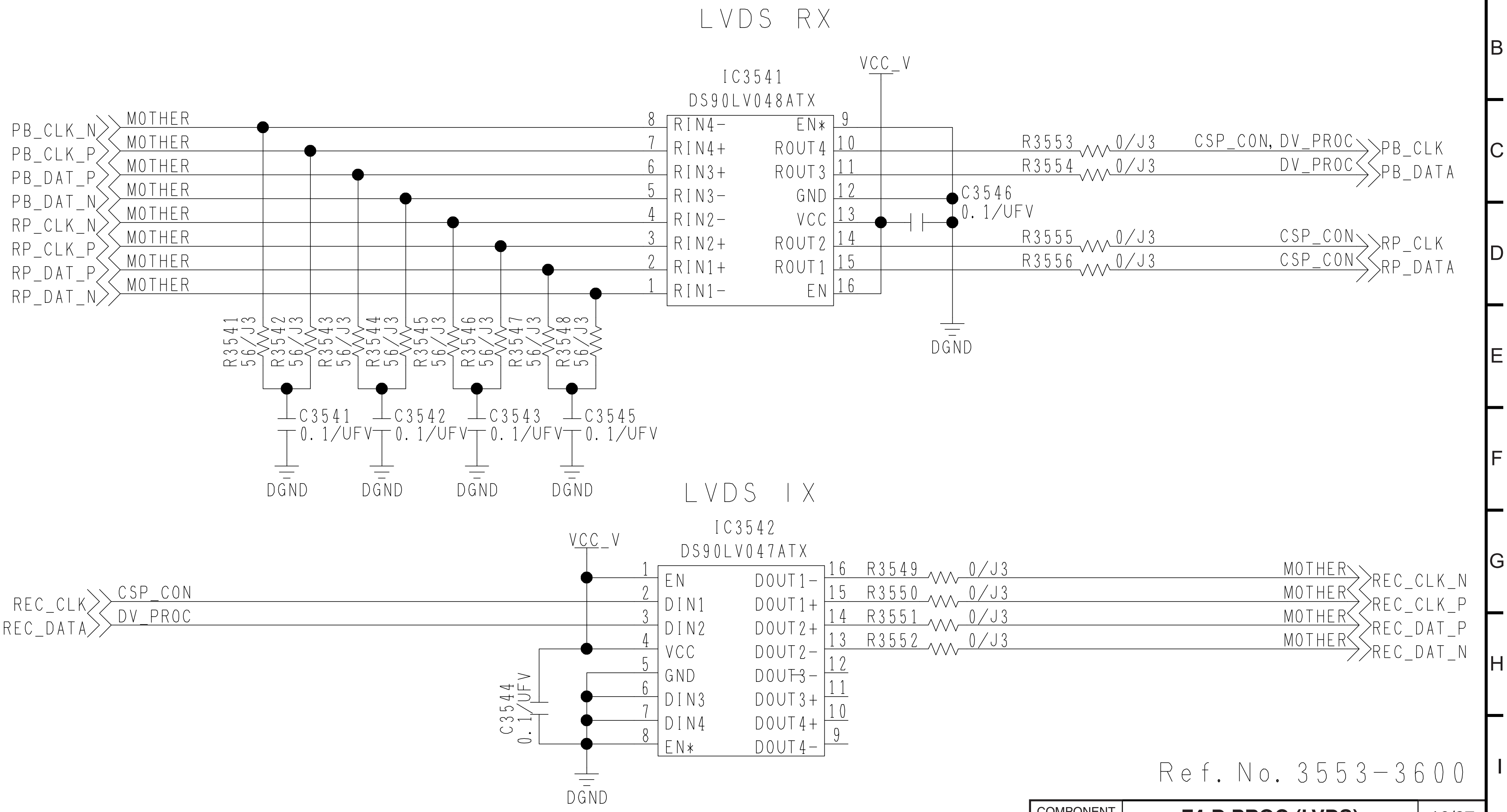

PONRST_V
AVIF
AV_VDAT_CS
DV_PROC
AV_RD_N
AVIF
AV_WR_N
AVIF
AV_DATA[0-7]
AVIF
AV_ADRS[0-5]
AVIF
PBVS_VDAT
DV_IO
PBHS_VDAT
DV_IO
PB_FRP_VDAT
CSP_CON
TCK
MOTHER
TRST
MOTHER
TMS
MOTHER
TDI_VDAT
ACNT
TDI_PB_FIL
PB_411_FILTER
R3511
1000/J3
DGND
REC_Y_DATA[0-7]
DV_IO
REC_FRP_VDAT
CSP_CON
REC_INV_VDAT
DV_IO
REC_INH_VDAT
DV_IO
CLK135_VDAT
PLL_VCO
CLK18_VDAT
PLL_VCO
DV_IO
PB_VDAT_EN
DV_IO
PB_VDAT_DATA[0-7]
VCC_V
IC3511
UPD65943G028
1 VDD
2 PFF
3 PFS
4 PFP
5 NC
6 NC
7 NC
8 NC
9 NC
10 NC
11 NC
12 NC
13 NC
14 GND
15 TCK/SCK
16 TRST
17 TMS/SMC
18 TDI/SIN
19 TDO/SOT
20 HIZ
21 GND
22 NC
23 NC
24 NC
25 VDD
26 GND
27 RSC
28 GND
29 RIC
30 GND
31 NC
32 NC
33 NC
34 NC
35 NC
36 NC
37 NC
38 NC
39 NC
40 VDD
41 RY10
42 RY11
43 RY12
44 RY13
45 RY14
46 RY15
47 RY16
48 RY17
49 NC
50 GND
51 VDD
52 INH
53 INV
54 RFP
55 NC
56 NC
57 RST
58 GND
59 SRM
60 SAM
61 SCS
62 SRD
63 SEN
64 SAE
65 GND
66 SD0
67 SD1
68 SD2
69 SD3
70 GND
71 SD4
72 SD5
73 SD6
74 SD7
75 VDD
76 GND
77 SAL0
78 SAL1
79 SAL2
80 SAL3
81 SAL4
82 SAL5
83 VDD
84 PVD0
85 PVD1
86 PVD2
87 PVD3
88 PVD4
89 PVD5
90 PVD6
91 PVD7
92 GND
93 NC
94 PVE
95 PDE
96 PHD
97 PVB
98 GND
99 PIC
100 GND
[0] [1] [2] [3] [4] [5] [6] [7]
R3512
47K/J3
VCC_V
C3516
1000P/UBV
DGND
VCC_V
C3512
0.1/UFV
C3513
0.1/UFV
C3514
0.1/UFV
C3515
0.1/UFV
DGND
DGND
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Ref No. 3511-3540

COMPONENT NAME
F4:D PROC (VIDEO DATA VITC/CC)
15/27

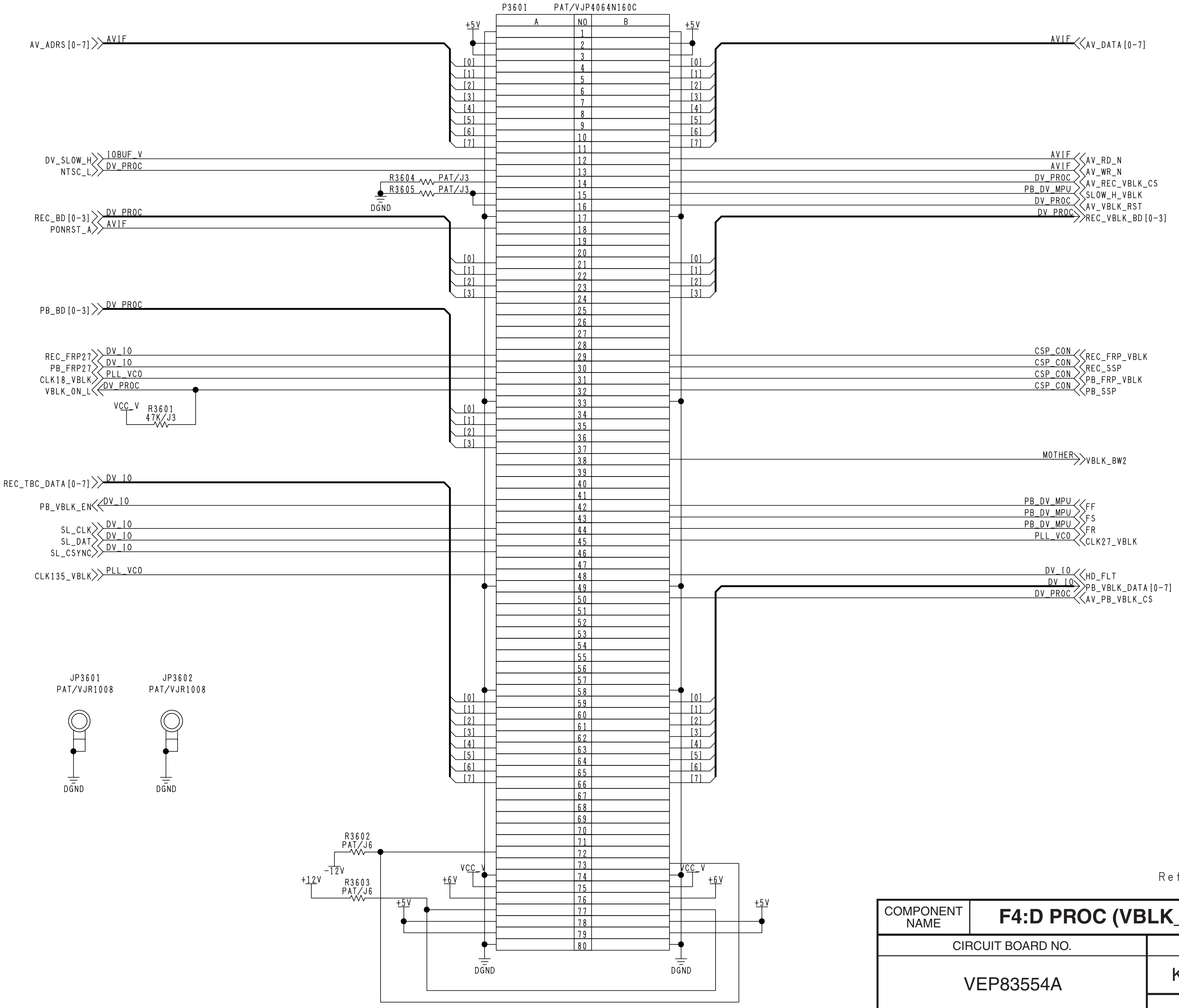
CIRCUIT BOARD NO.
VEP83554A

DRAWING NO.
KR30088 (15/27)
SCM044


LVDS RX
IC3541
DS90LV048ATX
VCC_V
PB_CLK_N
PB_CLK_P
PB_DAT_P
PB_DAT_N
RP_CLK_N
RP_CLK_P
RP_DAT_P
RP_DAT_N
MOTHER
8 RIN4-
7 RIN4+
6 RIN3+
5 RIN3-
4 RIN2-
3 RIN2+
2 RIN1+
1 RIN1-
EN* 9
ROUT4 10
ROUT3 11
GND 12
VCC 13
ROUT2 14
ROUT1 15
EN 16
C3546
0.1/UFV
R3553 0/J3
R3554 0/J3
R3555 0/J3
R3556 0/J3
CSP_CON, DV_PROC
DV_PROC
CSP_CON
CSP_CON
PB_CLK
PB_DATA
RP_CLK
RP_DATA
DGND
R3541 56/J3
R3542 56/J3
R3543 56/J3
R3544 56/J3
R3545 56/J3
R3546 56/J3
R3547 56/J3
R3548 56/J3
C3541 0.1/UFV
C3542 0.1/UFV
C3543 0.1/UFV
C3545 0.1/UFV
DGND
DGND
DGND
DGND
LVDS IX
IC3542
DS90LV047ATX
VCC_V
REC_CLK
REC_DATA
CSP_CON
DV_PROC
1 EN
2 DIN1
3 DIN2
4 VCC
5 GND
6 DIN3
7 DIN4
8 EN*
DOUT1- 16
DOUT1+ 15
DOUT2+ 14
DOUT2- 13
DOUT3- 12
DOUT3+ 11
DOUT4+ 10
DOUT4- 9
R3549 0/J3
R3550 0/J3
R3551 0/J3
R3552 0/J3
MOTHER
REC_CLK_N
REC_CLK_P
REC_DAT_P
REC_DAT_N
C3544 0.1/UFV
DGND

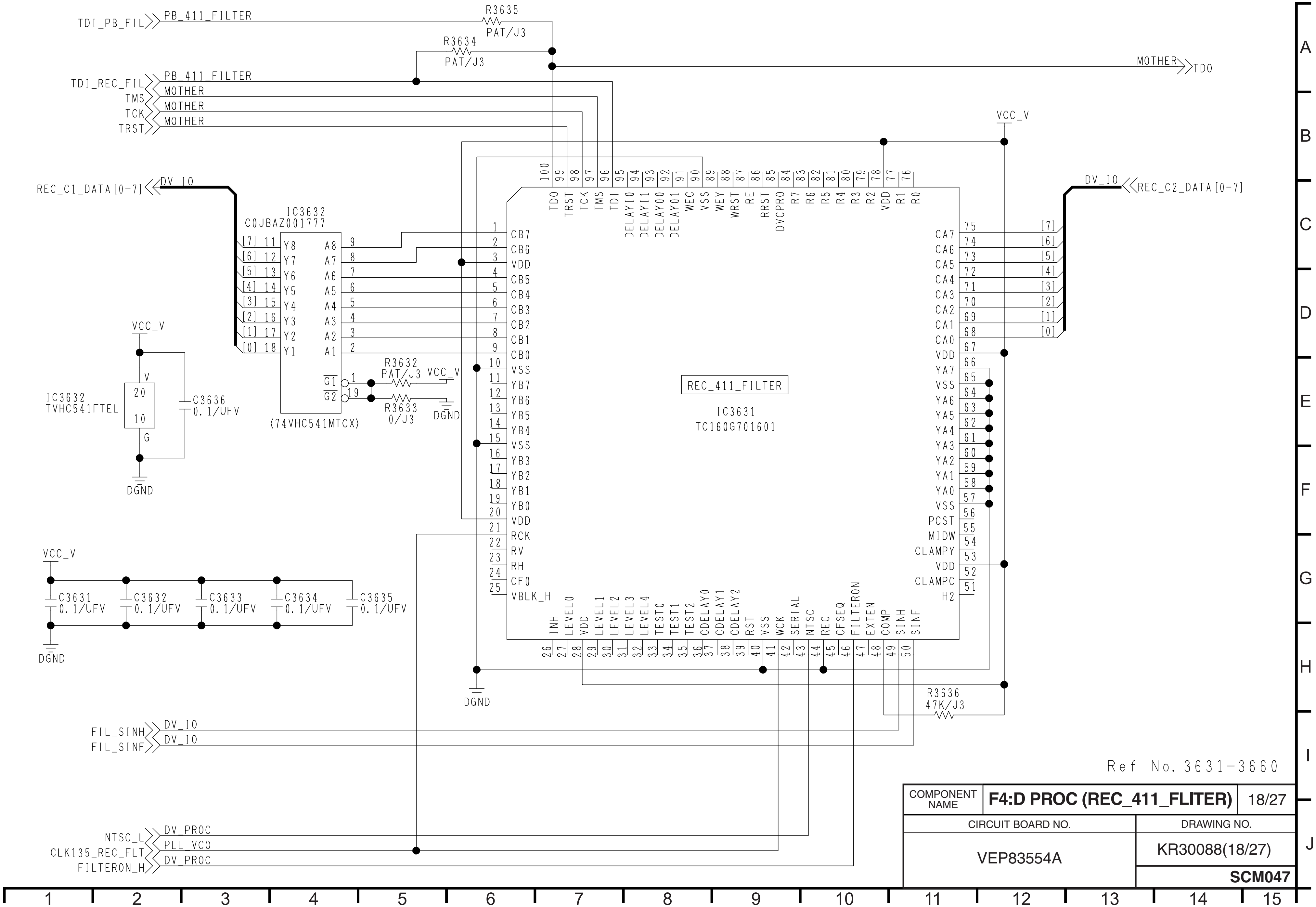
Ref. No. 3553-3600

COMPONENT NAME	F4:D PROC (LVDS)	16/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (16/27)	
	SCM045	


P3601
PAT/VJP4064N160C
A
NO
B
+5V
AV_ADRS[0-7]
AVIF
AV_DATA[0-7]
[0]
[1]
[2]
[3]
[4]
[5]
[6]
[7]
DV_SLOW_H
IOBUF_V
NTSC_L
DV_PROC
AV_RD_N
AV_WR_N
AV_REC_VBLK_CS
PB_DV_MPU
SLOW_H_VBLK
AV_VBLK_RST
R3604
PAT/J3
R3605
DGND
REC_BD[0-3]
PONRST_A
REC_VBLK_BD[0-3]
PB_BD[0-3]
REC_FRP27
DV_IO
PB_FRP27
CLK18_VBLK
PLL_VCO
VBLK_ON_L
VCC_V
R3601
47K/J3
CSP_CON
REC_FRP_VBLK
REC_SSP
PB_FRP_VBLK
PB_SSP
MOTHER
VBLK_BW2
REC_TBC_DATA[0-7]
PB_VBLK_EN
SL_CLK
SL_DAT
SL_CSYNC
FF
FS
FR
CLK27_VBLK
CLK135_VBLK
HD_FLT
PB_VBLK_DATA[0-7]
AV_PB_VBLK_CS
JP3601
PAT/VJR1008
JP3602
PAT/VJR1008
R3602
PAT/J6
-12V
+12V
R3603
+6V

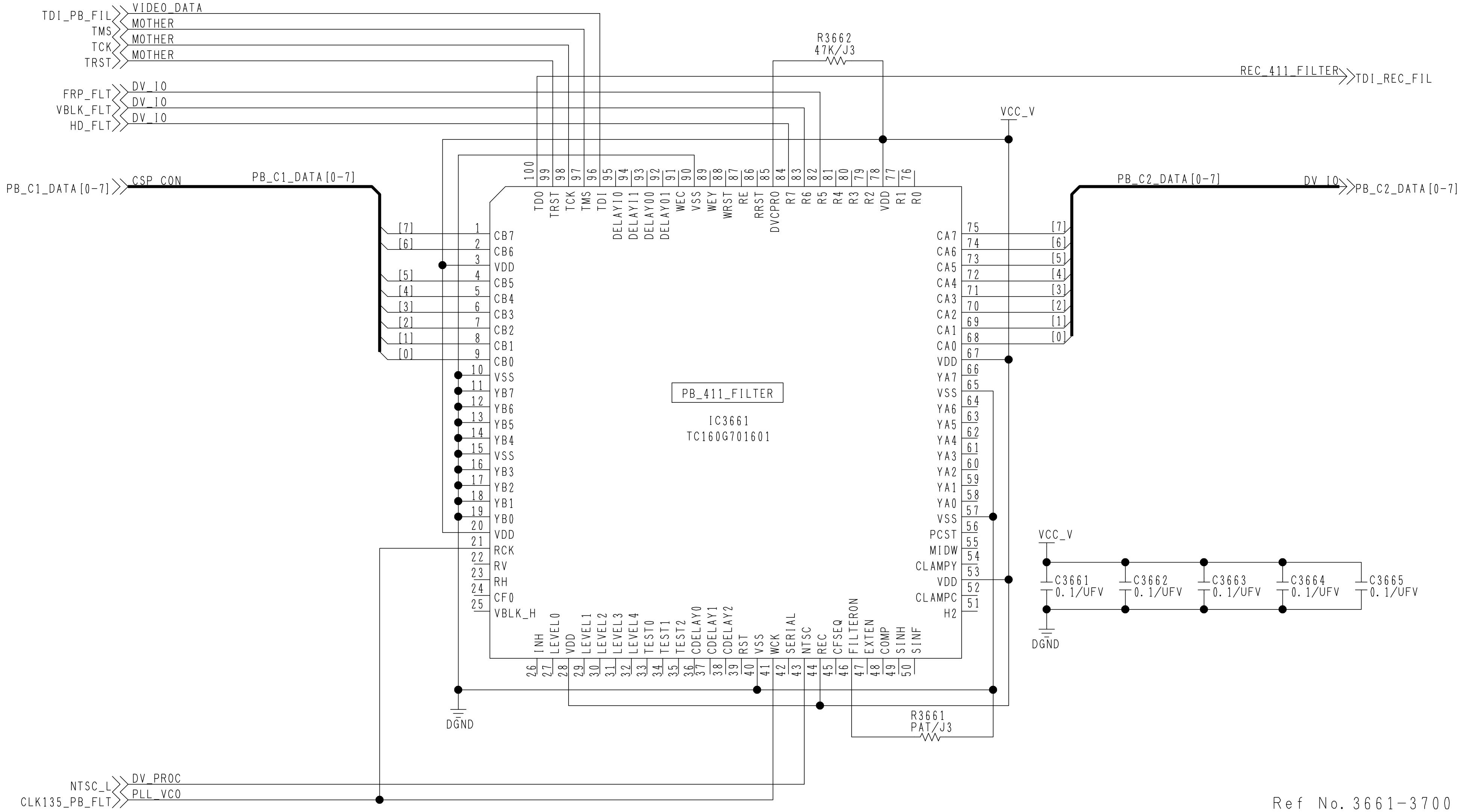
Ref No. 3601-3630

COMPONENT NAME	F4:D PROC (VBLK_CON)	17/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (17/27)	
	SCM046	


TDI_PB_FIL
PB_411_FILTER
R3635
PAT/J3
R3634
PAT/J3
MOTHER
TDO
TDI_REC_FIL
PB_411_FILTER
TMS
MOTHER
TCK
MOTHER
TRST
MOTHER
VCC_V
REC_C1_DATA[0-7]
DV_IO
DV_IO
REC_C2_DATA[0-7]
IC3632
C0JBAZ001777
(74VHC541MTCX)
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
A8 A7 A6 A5 A4 A3 A2 A1
G1 G2
R3632
PAT/J3
VCC_V
R3633
0/J3
DGND
VCC_V
IC3632
TVHC541FTEL
V
20
10
G
C3636
0.1/UFV
DGND
TDO TRST TCK TMS TDI DELAYI0 DELAYI1 DELAYO0 DELAYO1 WEC VSS WEY WRST RE RRST DVCPRO R7 R6 R5 R4 R3 R2 VDD R1 R0
CB7 CB6 VDD CB5 CB4 CB3 CB2 CB1 CB0 VSS YB7 YB6 YB5 YB4 VSS YB3 YB2 YB1 YB0 VDD RCK RV RH CF0 VBLK_H
CA7 CA6 CA5 CA4 CA3 CA2 CA1 CA0 VDD YA7 VSS YA6 YA5 YA4 YA3 YA2 YA1 YA0 VSS PCST MIDW CLAMPY VDD CLAMPC H2
INH LEVEL0 VDD LEVEL1 LEVEL2 LEVEL3 LEVEL4 TEST0 TEST1 TEST2 CDELAY0 CDELAY1 CDELAY2 RST VSS WCK SERIAL NTSC REC CFSEQ FILTERON EXTEN COMP SINH SINF
REC_411_FILTER
IC3631
TC160G701601
VCC_V
C3631
0.1/UFV
C3632
0.1/UFV
C3633
0.1/UFV
C3634
0.1/UFV
C3635
0.1/UFV
DGND
DGND
R3636
47K/J3
FIL_SINH
DV_IO
FIL_SINF
DV_IO
NTSC_L
DV_PROC
CLK135_REC_FLT
PLL_VCO
FILTERON_H
DV_PROC
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

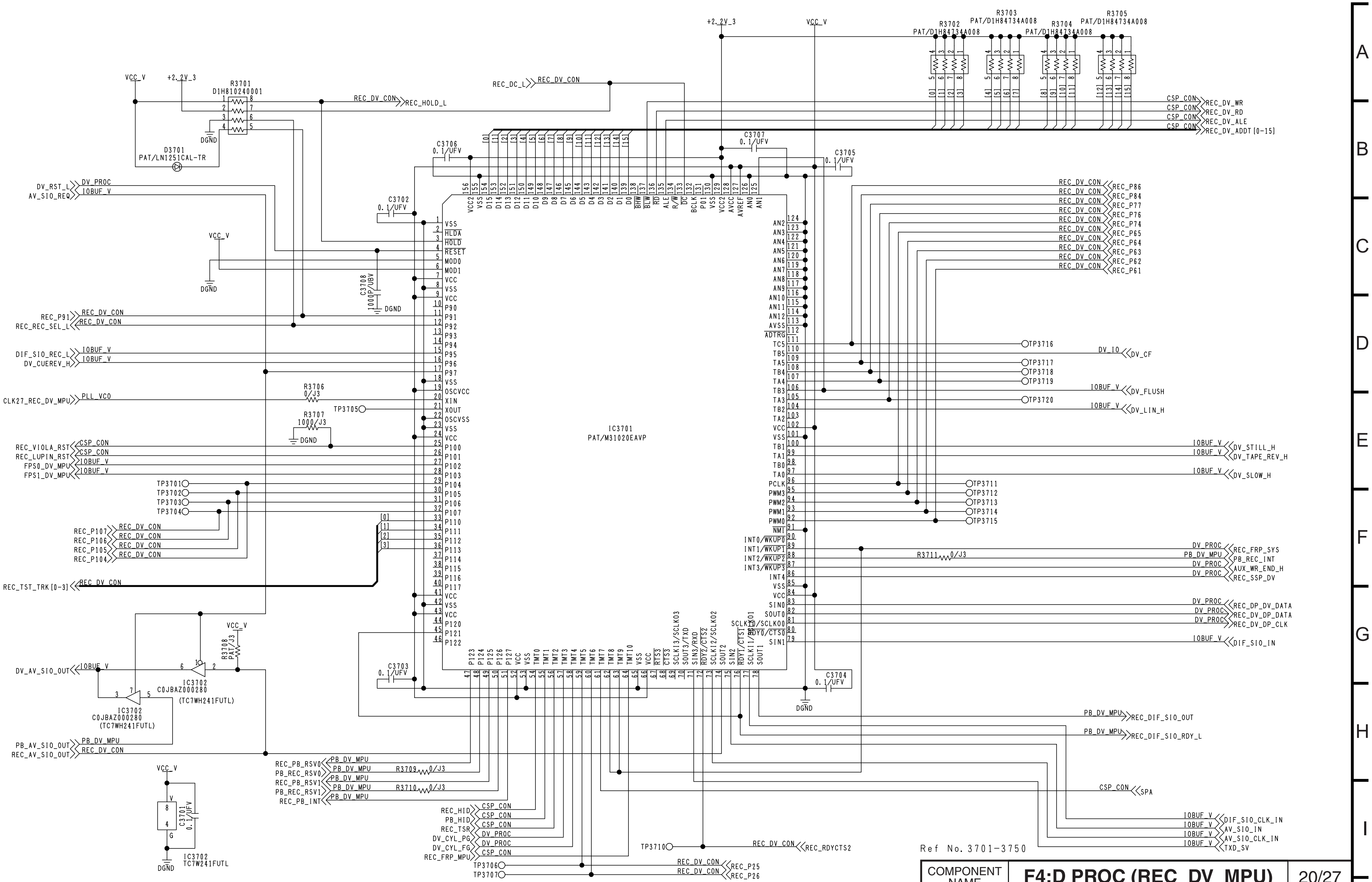
Ref No. 3631-3660

COMPONENT NAME	F4:D PROC (REC_411_FLITER)	18/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088(18/27)	
	SCM047	


TDI_PB_FIL
VIDEO_DATA
TMS
MOTHER
TCK
MOTHER
TRST
MOTHER
FRP_FLT
DV_IO
VBLK_FLT
DV_IO
HD_FLT
DV_IO
R3662
47K/J3
REC_411_FILTER
TDI_REC_FIL
VCC_V
PB_C1_DATA[0-7]
CSP_CON
PB_C1_DATA[0-7]
PB_C2_DATA[0-7]
DV_IO
PB_C2_DATA[0-7]
PB_411_FILTER
IC3661
TC160G701601
TDO
TRST
TCK
TMS
TDI
DELAYI0
DELAYI1
DELAYO0
DELAYO1
WEC
VSS
WEY
WRST
RE
RRST
DVCPRO
R7
R6
R5
R4
R3
R2
VDD
R1
R0
CB7
CB6
VDD
CB5
CB4
CB3
CB2
CB1
CB0
VSS
YB7
YB6
YB5
YB4
VSS
YB3
YB2
YB1
YB0
VDD
RCK
RV
RH
CF0
VBLK_H
CA7
CA6
CA5
CA4
CA3
CA2
CA1
CA0
VDD
YA7
VSS
YA6
YA5
YA4
YA3
YA2
YA1
YA0
VSS
PCST
MIDW
CLAMPY
VDD
CLAMPC
H2
INH
LEVEL0
VDD
LEVEL1
LEVEL2
LEVEL3
LEVEL4
TEST0
TEST1
TEST2
CDELAY0
CDELAY1
CDELAY2
RST
VSS
WCK
SERIAL
NTSC
REC
CFSEQ
FILTERON
EXTEN
COMP
SINH
SINF
DGND
R3661
PAT/J3
NTSC_L
DV_PROC
CLK135_PB_FLT
PLL_VCO
VCC_V
C3661
0.1/UFV
C3662
0.1/UFV
C3663
0.1/UFV
C3664
0.1/UFV
C3665
0.1/UFV
DGND

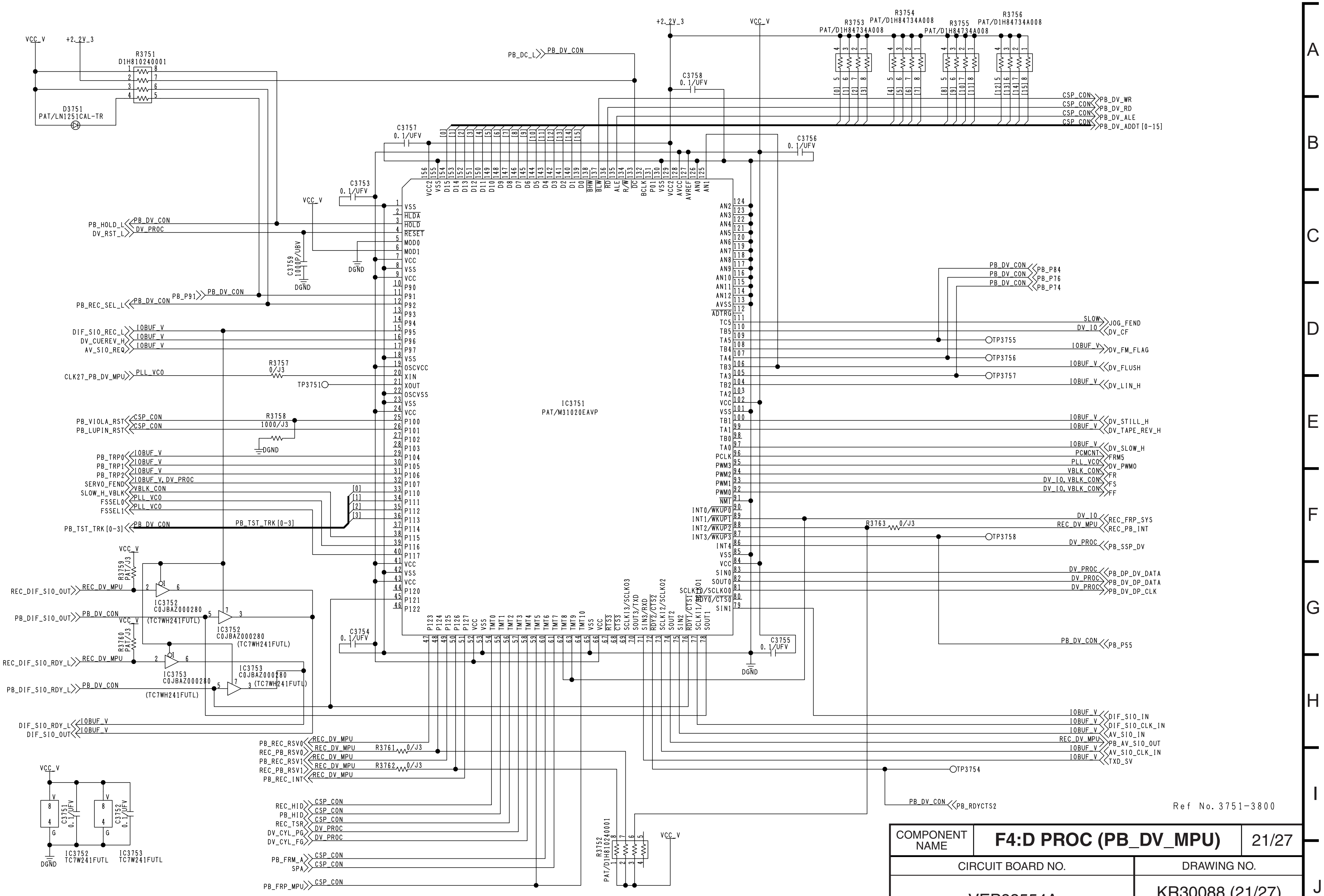
Ref No. 3661-3700

COMPONENT NAME	F4:D PROC (PB_411_FILTER)	19/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (19/27)	
	SCM048	


IC3701
PAT/M31020EAVP
IC3702
C0JBAZ000280
(TC7WH241FUTL)
IC3702
TC7W241FUTL
R3701
D1H810240001
R3702
PAT/D1H84734A008
R3703
PAT/D1H84734A008
R3704
PAT/D1H84734A008
R3705
PAT/D1H84734A008
D3701
PAT/LN1251CAL-TR
R3706
0/J3
R3707
1000/J3
R3708
PAT/J3
R3709
0/J3
R3710
0/J3
R3711
0/J3
C3701
0.1/UFV
C3702
0.1/UFV
C3703
0.1/UFV
C3704
0.1/UFV
C3705
0.1/UFV
C3706
0.1/UFV
C3707
0.1/UFV
C3708
1000P/UBV
VCC_V
+2.2V_3
DGND
REC_DC_L
REC_DV_CON
REC_HOLD_L
DV_RST_L
AV_SIO_REQ
DV_PROC
IOBUF_V
REC_P91
REC_REC_SEL_L
DIF_SIO_REC_L
DV_CUEREV_H
CLK27_REC_DV_MPU
PLL_VCO
TP3705
REC_VIOLA_RST
REC_LUPIN_RST
FPS0_DV_MPU
FPS1_DV_MPU
CSP_CON
TP3701
TP3702
TP3703
TP3704
REC_P107
REC_P106
REC_P105
REC_P104
REC_TST_TRK[0-3]
DV_AV_SIO_OUT
PB_AV_SIO_OUT
REC_AV_SIO_OUT
PB_DV_MPU
REC_PB_RSV0
PB_REC_RSV0
REC_PB_RSV1
PB_REC_RSV1
REC_PB_INT
REC_HID
PB_HID
REC_TSR
DV_CYL_PG
DV_CYL_FG
REC_FRP_MPU
TP3706
TP3707
REC_P25
REC_P26
TP3710
REC_RDYCTS2
REC_DV_WR
REC_DV_RD
REC_DV_ALE
REC_DV_ADDT[0-15]
REC_P86
REC_P84
REC_P77
REC_P76
REC_P74
REC_P65
REC_P64
REC_P63
REC_P62
REC_P61
TP3716
TP3717
TP3718
TP3719
TP3720
DV_IO
DV_CF
DV_FLUSH
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DV_SLOW_H
TP3711
TP3712
TP3713
TP3714
TP3715
REC_FRP_SYS
PB_REC_INT
AUX_WR_END_H
REC_SSP_DV
REC_DP_DV_DATA
REC_DV_DP_DATA
REC_DV_DP_CLK
DIF_SIO_IN
REC_DIF_SIO_OUT
REC_DIF_SIO_RDY_L
SPA
DIF_SIO_CLK_IN
AV_SIO_IN
AV_SIO_CLK_IN
TXD_SV

Ref No.3701-3750

COMPONENT NAME	F4:D PROC (REC_DV_MPU)	20/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (20/27)	
	SCM049	


IC3751
PAT/M31020EAVP
R3751
D1H810240001
D3751
PAT/LN1251CAL-TR
R3753
PAT/D1H84734A008
R3754
PAT/D1H84734A008
R3755
PAT/D1H84734A008
R3756
PAT/D1H84734A008
R3752
PAT/D1H810240001
R3757
0/J3
R3758
1000/J3
R3759
PAT/J3
R3760
PAT/J3
R3761
0/J3
R3762
0/J3
R3763
0/J3
C3751
C3752
C3753
0.1/UFV
C3754
0.1/UFV
C3755
0.1/UFV
C3756
0.1/UFV
C3757
0.1/UFV
C3758
0.1/UFV
C3759
1000P/UBV
IC3752
C0JBAZ000280
(TC7WH241FUTL)
IC3753
C0JBAZ000280
(TC7WH241FUTL)
IC3752
TC7W241FUTL
IC3753
TC7W241FUTL
TP3751
TP3754
TP3755
TP3756
TP3757
TP3758
VCC_V
+2.2V_3
DGND
PB_DC_L
PB_DV_CON
PB_HOLD_L
DV_RST_L
DV_PROC
PB_REC_SEL_L
PB_P91
DIF_SIO_REC_L
DV_CUEREV_H
AV_SIO_REQ
IOBUF_V
CLK27_PB_DV_MPU
PLL_VCO
PB_VIOLA_RST
PB_LUPIN_RST
CSP_CON
PB_TRP0
PB_TRP1
PB_TRP2
SERVO_FEND
SLOW_H_VBLK
FSSEL0
FSSEL1
VBLK_CON
PB_TST_TRK[0-3]
REC_DIF_SIO_OUT
REC_DV_MPU
PB_DIF_SIO_OUT
REC_DIF_SIO_RDY_L
PB_DIF_SIO_RDY_L
DIF_SIO_RDY_L
DIF_SIO_OUT
PB_REC_RSV0
REC_PB_RSV0
PB_REC_RSV1
REC_PB_RSV1
PB_REC_INT
REC_HID
PB_HID
REC_TSR
DV_CYL_PG
DV_CYL_FG
PB_FRM_A
SPA
PB_FRP_MPU
PB_DV_WR
PB_DV_RD
PB_DV_ALE
PB_DV_ADDT[0-15]
PB_P84
PB_P76
PB_P74
SLOW
JOG_FEND
DV_IO
DV_CF
DV_FM_FLAG
DV_FLUSH
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DV_SLOW_H
PCMCNT
FRM5
DV_PWM0
FR
FS
FF
REC_FRP_SYS
REC_PB_INT
PB_SSP_DV
PB_DP_DV_DATA
PB_DV_DP_DATA
PB_DV_DP_CLK
PB_P55
DIF_SIO_IN
DIF_SIO_CLK_IN
AV_SIO_IN
PB_AV_SIO_OUT
AV_SIO_CLK_IN
TXD_SV
PB_RDYCTS2
VSS
HLDA
HOLD
RESET
MOD0
MOD1
VCC
P90
P91
P92
P93
P94
P95
P96
P97
OSCVCC
XIN
XOUT
OSCVSS
P100
P101
P102
P103
P104
P105
P106
P107
P110
P111
P112
P113
P114
P115
P116
P117
P120
P121
P122
P123
P124
P125
P126
P127
TMT0
TMT1
TMT2
TMT3
TMT4
TMT5
TMT6
TMT7
TMT8
TMT9
TMT10
RTS3
CTS3
SCLKI3/SCLKO3
SOUT3/TXD
SIN3/RXD
RDY2/CTS2
SCLKI2/SCLKO2
SOUT2
SIN2
RDY1/CTS1
SCLKI1/SCLKO1
SOUT1
SIN1
RDY0/CTS0
SCLKI0/SCLKO0
SOUT0
SIN0
INT4
INT3/WKUP3
INT2/WKUP2
INT1/WKUP1
INT0/WKUP0
NMI
PWM0
PWM1
PWM2
PWM3
PCLK
TA0
TB0
TA1
TB1
TA2
TB2
TA3
TB3
TA4
TB4
TA5
TB5
TC5
ADTRG
AVSS
AN0
AN1
AN2
AN3
AN4
AN5
AN6
AN7
AN8
AN9
AN10
AN11
AN12
AVREF
AVCC
VCC2
BCLK
P01
DC
R/W
ALE
RD
BLW
BHW
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
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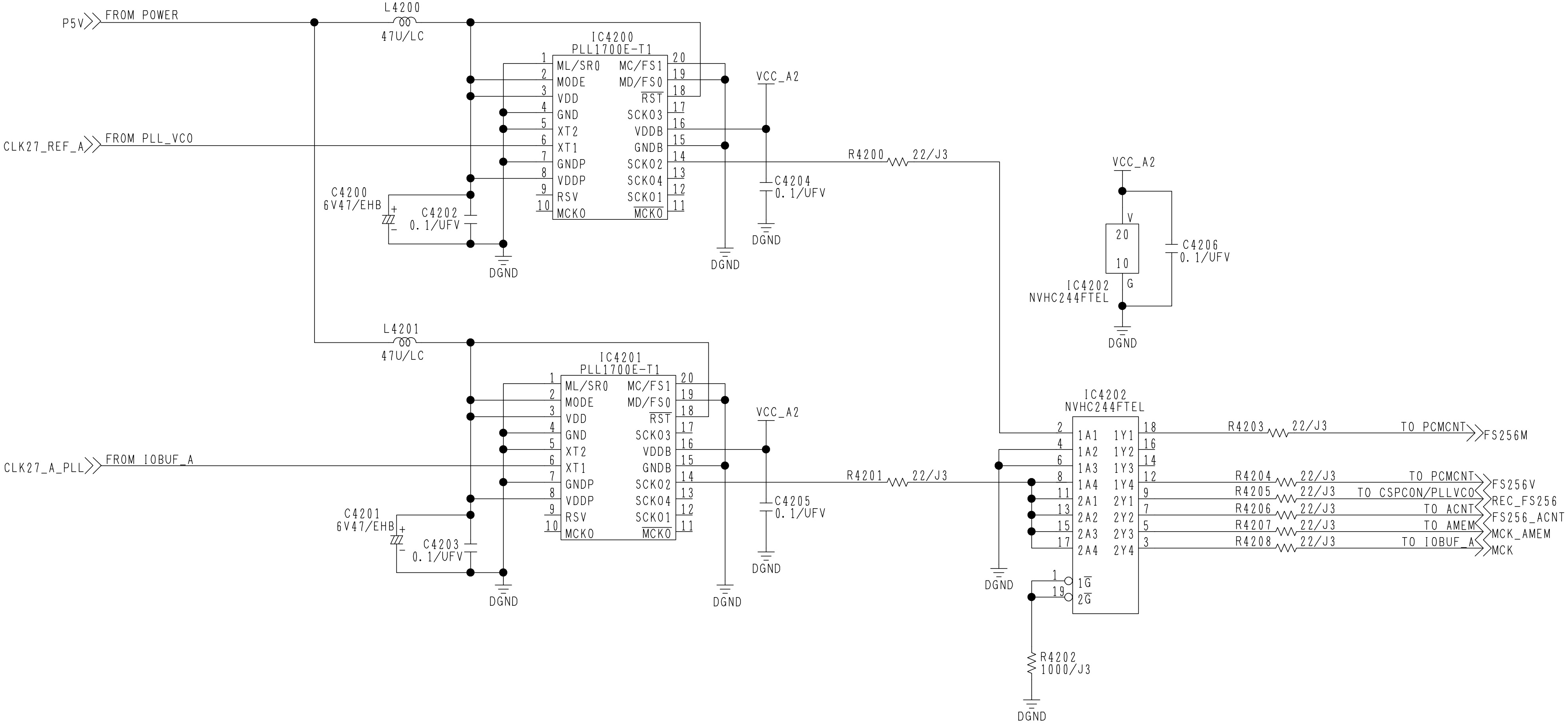
14
15

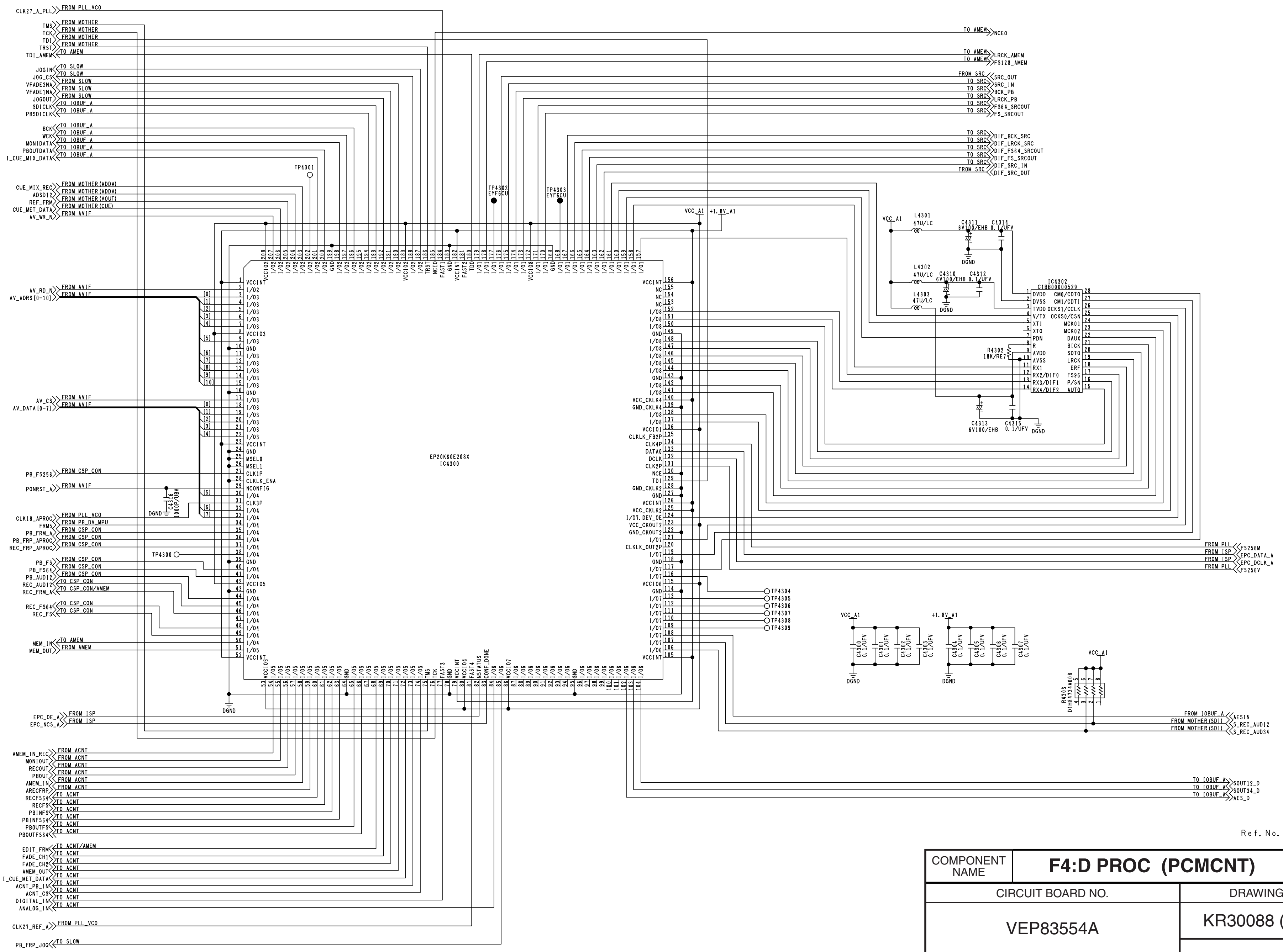
Ref No. 3751-3800

COMPONENT NAME	F4:D PROC (PB_DV_MPU)	21/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (21/27)	
	SCM050	


P5V
FROM POWER
L4200
47U/LC
IC4200
PLL1700E-T1
ML/SR0
MODE
VDD
GND
XT2
XT1
GNDP
VDDP
RSV
MCKO
MC/FS1
MD/FS0
RST
SCKO3
VDDB
GNDB
SCKO2
SCKO4
SCKO1
MCKO
VCC_A2
CLK27_REF_A
FROM PLL_VCO
C4200
6V47/EHB
C4202
0.1/UFV
C4204
0.1/UFV
DGND
R4200
22/J3
VCC_A2
IC4202
NVHC244FTEL
20
10
V
G
C4206
0.1/UFV
L4201
47U/LC
IC4201
PLL1700E-T1
CLK27_A_PLL
FROM IOBUF_A
C4201
6V47/EHB
C4203
0.1/UFV
C4205
0.1/UFV
R4201
22/J3
1A1
1A2
1A3
1A4
2A1
2A2
2A3
2A4
1Y1
1Y2
1Y3
1Y4
2Y1
2Y2
2Y3
2Y4
1G
2G
R4202
1000/J3
R4203 22/J3 TO PCMCNT FS256M
R4204 22/J3 TO PCMCNT FS256V
R4205 22/J3 TO CSPCON/PLLVCO REC_FS256
R4206 22/J3 TO ACNT FS256_ACNT
R4207 22/J3 TO AMEM MCK_AMEM
R4208 22/J3 TO IOBUF_A MCK

Ref. No. 4200-4299

COMPONENT NAME	**F4:D PROC (PLL)**	22/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (22/27)	
	SCM051	


CLK27_A_PLL FROM PLL_VCO
TMS FROM MOTHER
TCK FROM MOTHER
TDI FROM MOTHER
TRST FROM MOTHER
TDI_AMEM TO AMEM
JOGIN TO SLOW
JOG_CS TO SLOW
VFADE2NA FROM SLOW
VFADE1NA FROM SLOW
JOGOUT FROM SLOW
SDICLK TO IOBUF_A
PBSDICLK TO IOBUF_A
BCK TO IOBUF_A
WCK TO IOBUF_A
MONIDATA TO IOBUF_A
PBOUTDATA TO IOBUF_A
I_CUE_MIX_DATA TO IOBUF_A
CUE_MIX_REC FROM MOTHER(ADDA)
ADSD12 FROM MOTHER(ADDA)
REF_FRM FROM MOTHER(VOUT)
CUE_MET_DATA FROM MOTHER(CUE)
AV_WR_N FROM AVIF
AV_RD_N FROM AVIF
AV_ADRS[0-10] FROM AVIF
AV_CS FROM AVIF
AV_DATA[0-7] FROM AVIF
PB_FS256 FROM CSP_CON
PONRST_A FROM AVIF
C4316 1000P/UBV
DGND
CLK18_APROC FROM PLL_VCO
FRM5 FROM PB_DV_MPU
PB_FRM_A FROM CSP_CON
PB_FRP_APROC FROM CSP_CON
REC_FRP_APROC FROM CSP_CON
TP4300
PB_FS FROM CSP_CON
PB_FS64 FROM CSP_CON
PB_AUD12 FROM CSP_CON
REC_AUD12 TO CSP_CON
REC_FRM_A TO CSP_CON/AMEM
REC_FS64 TO CSP_CON
REC_FS TO CSP_CON
MEM_IN TO AMEM
MEM_OUT FROM AMEM
EPC_OE_A FROM ISP
EPC_NCS_A FROM ISP
AMEM_IN_REC FROM ACNT
MONIOUT FROM ACNT
RECOUT FROM ACNT
PBOUT FROM ACNT
AMEM_IN FROM ACNT
ARECFRP FROM ACNT
RECFS64 TO ACNT
RECFS TO ACNT
PBINFS TO ACNT
PBINFS64 TO ACNT
PBOUTFS TO ACNT
PBOUTFS64 TO ACNT
EDIT_FRM TO ACNT/AMEM
FADE_CH1 TO ACNT
FADE_CH2 TO ACNT
AMEM_OUT TO ACNT
I_CUE_MET_DATA TO ACNT
ACNT_PB_IN TO ACNT
ACNT_CS TO ACNT
DIGITAL_IN TO ACNT
ANALOG_IN TO ACNT
CLK27_REF_A FROM PLL_VCO
PB_FRP_JOG TO SLOW
TP4301
TP4302 EYF8CU
TP4303 EYF8CU
EP20K60E208X
IC4300
TO AMEM NCEO
TO AMEM LRCK_AMEM
TO AMEM FS128_AMEM
FROM SRC SRC_OUT
TO SRC SRC_IN
TO SRC BCK_PB
TO SRC LRCK_PB
TO SRC FS64_SRCOUT
TO SRC FS_SRCOUT
TO SRC DIF_BCK_SRC
TO SRC DIF_LRCK_SRC
TO SRC DIF_FS64_SRCOUT
TO SRC DIF_FS_SRCOUT
TO SRC DIF_SRC_IN
FROM SRC DIF_SRC_OUT
VCC_A1
+1.8V_A1
L4301 47U/LC
L4302 47U/LC
L4303 47U/LC
C4311 6V100/EHB
C4314 0.1/UFV
C4310 6V100/EHB
C4312 0.1/UFV
C4313 6V100/EHB
C4315 0.1/UFV
R4302 18K/RE7
IC4302
C1BB00000529
DVDD CM0/CDTO
DVSS CM1/CDTI
TVDD OCKS1/CCLK
V/TX OCKS0/CSN
XTI MCKO1
XTO MCKO2
PDN DAUX
R BICK
AVDD SDTO
AVSS LRCK
RX1 ERF
RX2/DIF0 FS96
RX3/DIF1 P/SN
RX4/DIF2 AUTO
FROM PLL FS256M
FROM ISP EPC_DATA_A
FROM ISP EPC_DCLK_A
FROM PLL FS256V
TP4304
TP4305
TP4306
TP4307
TP4308
TP4309
C4300 0.1/UFV
C4301 0.1/UFV
C4302 0.1/UFV
C4303 0.1/UFV
C4304 0.1/UFV
C4305 0.1/UFV
C4306 0.1/UFV
C4307 0.1/UFV
R4303 D1H84734A008
FROM IOBUF_A AESIN
FROM MOTHER(SDI) S_REC_AUD12
FROM MOTHER(SDI) S_REC_AUD34
TO IOBUF_A SOUT12_D
TO IOBUF_A SOUT34_D
TO IOBUF_A AES_D
A
B
C
D
E
F
G
H
I
J
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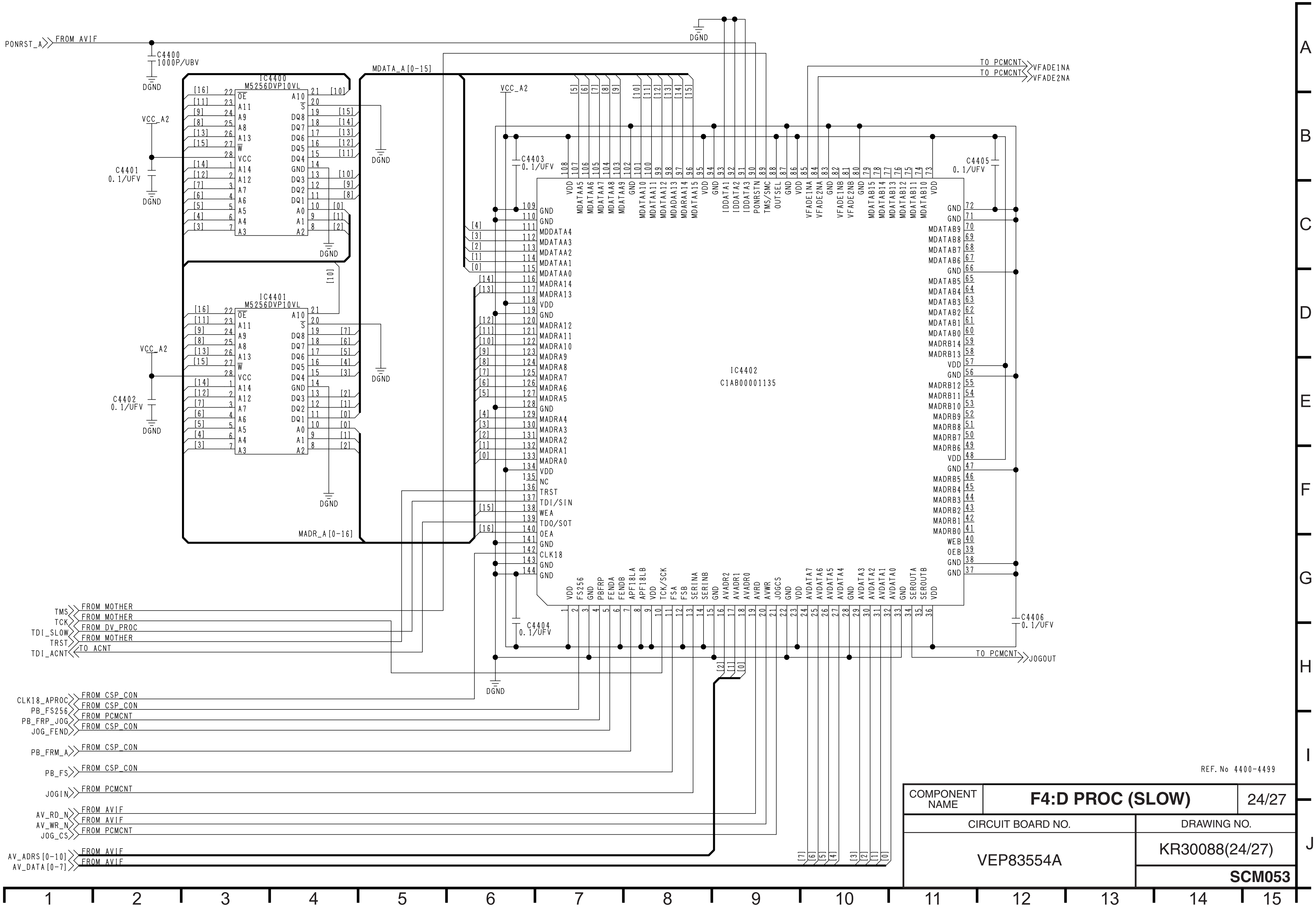
Ref. No. 4300－4399

COMPONENT NAME	F4:D PROC (PCMCNT)	23/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (23/27)	
	SCM052	


PONRST_A
FROM AVIF
C4400
1000P/UBV
DGND
IC4400
M5256DVP10VL
VCC_A2
C4401
0.1/UFV
IC4401
M5256DVP10VL
C4402
0.1/UFV
MDATA_A[0-15]
MADR_A[0-16]
VCC_A2
C4403
0.1/UFV
C4404
0.1/UFV
C4405
0.1/UFV
C4406
0.1/UFV
IC4402
C1AB00001135
TO PCMCNT
VFADE1NA
TO PCMCNT
VFADE2NA
TO PCMCNT
JOGOUT
TMS
FROM MOTHER
TCK
FROM MOTHER
TDI_SLOW
FROM DV_PROC
TRST
FROM MOTHER
TDI_ACNT
TO ACNT
CLK18_APROC
FROM CSP_CON
PB_FS256
FROM CSP_CON
PB_FRP_JOG
FROM PCMCNT
JOG_FEND
FROM CSP_CON
PB_FRM_A
FROM CSP_CON
PB_FS
FROM CSP_CON
JOGIN
FROM PCMCNT
AV_RD_N
FROM AVIF
AV_WR_N
FROM AVIF
JOG_CS
FROM PCMCNT
AV_ADRS[0-10]
FROM AVIF
AV_DATA[0-7]
FROM AVIF
A
B
C
D
E
F
G
H
I
J
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3
4
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6
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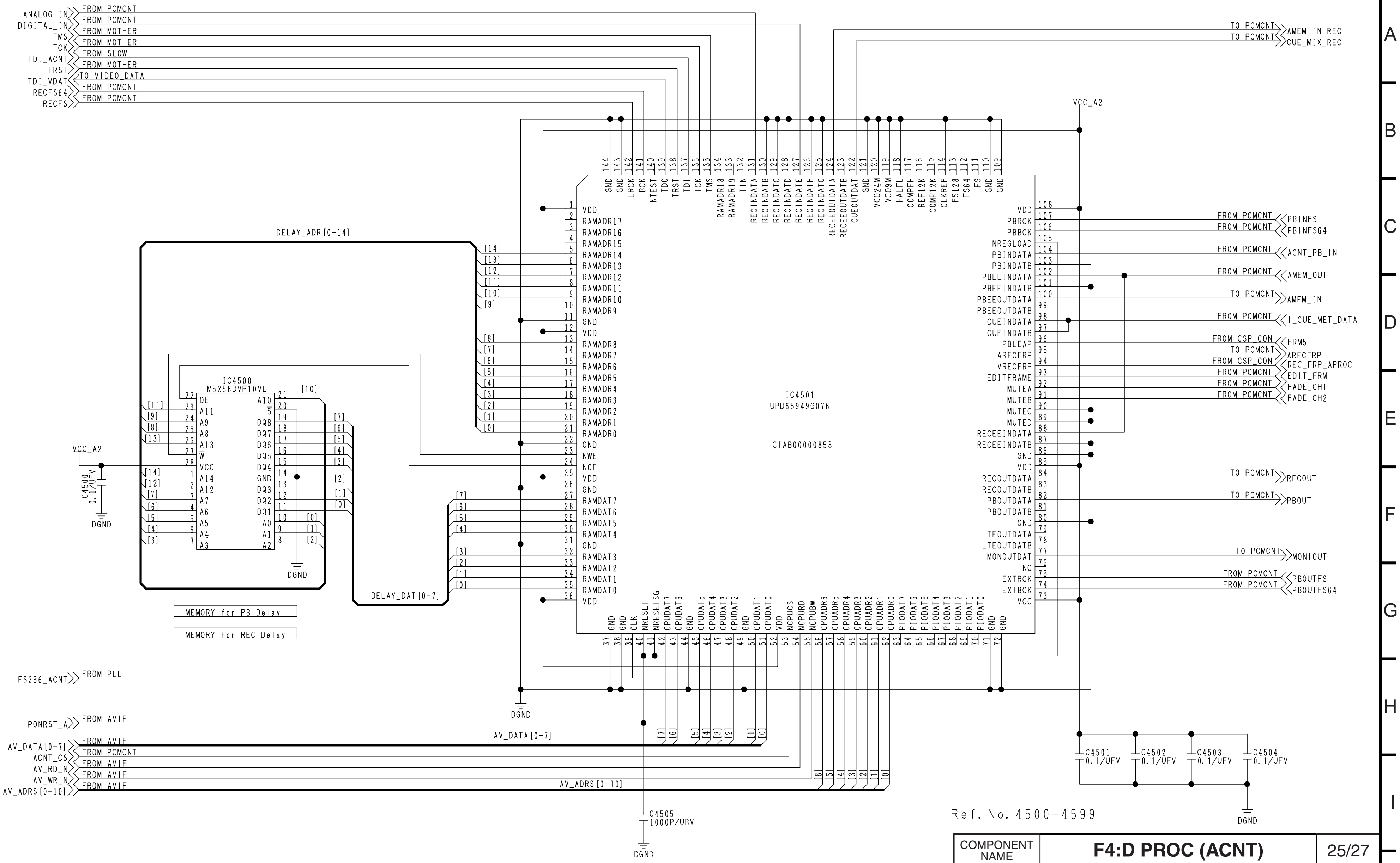
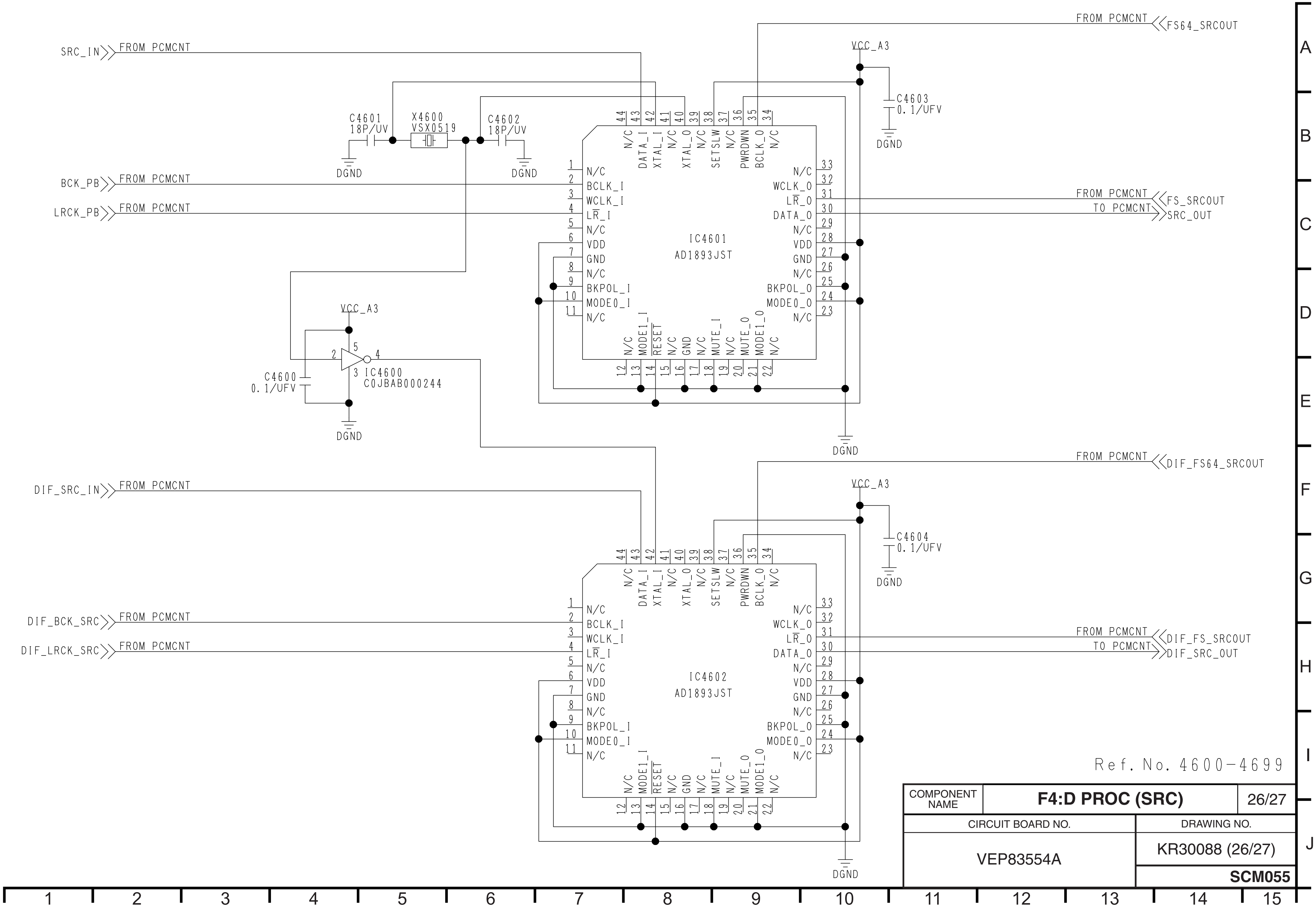
REF. No 4400-4499

COMPONENT NAME	F4:D PROC (SLOW)		24/27
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83554A		KR30088(24/27)	
		SCM053	


ANALOG_IN FROM PCMCNT
DIGITAL_IN FROM PCMCNT
TMS FROM MOTHER
TCK FROM MOTHER
TDI_ACNT FROM SLOW
TRST FROM MOTHER
TDI_VDAT TO VIDEO DATA
RECFS64 FROM PCMCNT
RECFS FROM PCMCNT
TO PCMCNT AMEM_IN_REC
TO PCMCNT CUE_MIX_REC
VCC_A2
DELAY_ADR[0-14]
IC4500
M5256DVP10VL
VCC_A2
C4500 0.1/UFV
DGND
DELAY_DAT[0-7]
MEMORY for PB Delay
MEMORY for REC Delay
IC4501
UPD65949G076
C1AB00000858
FROM PCMCNT PBINFS
FROM PCMCNT PBINFS64
FROM PCMCNT ACNT_PB_IN
FROM PCMCNT AMEM_OUT
TO PCMCNT AMEM_IN
FROM PCMCNT I_CUE_MET_DATA
FROM CSP_CON FRM5
TO PCMCNT ARECFRP
FROM CSP_CON REC_FRP_APROC
FROM PCMCNT EDIT_FRM
FROM PCMCNT FADE_CH1
FROM PCMCNT FADE_CH2
TO PCMCNT RECOUT
TO PCMCNT PBOUT
TO PCMCNT MONIOUT
FROM PCMCNT PBOUTFS
FROM PCMCNT PBOUTFS64
FS256_ACNT FROM PLL
DGND
PONRST_A FROM AVIF
AV_DATA[0-7] FROM AVIF
ACNT_CS FROM PCMCNT
AV_RD_N FROM AVIF
AV_WR_N FROM AVIF
AV_ADRS[0-10] FROM AVIF
AV_DATA[0-7]
AV_ADRS[0-10]
C4505 1000P/UBV
DGND
C4501 0.1/UFV
C4502 0.1/UFV
C4503 0.1/UFV
C4504 0.1/UFV
DGND

Ref. No. 4500-4599

COMPONENT NAME	F4:D PROC (ACNT)	25/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (25/27)	
	SCM054	


SRC_IN
FROM PCMCNT
BCK_PB
FROM PCMCNT
LRCK_PB
FROM PCMCNT
C4601
18P/UV
X4600
VSX0519
C4602
18P/UV
DGND
DGND
IC4601
AD1893JST
N/C
DATA_I
XTAL_I
N/C
XTAL_O
N/C
SETSLW
N/C
PWRDWN
BCLK_O
N/C
N/C
BCLK_I
WCLK_I
LR_I
N/C
VDD
GND
N/C
BKPOL_I
MODE0_I
N/C
N/C
WCLK_O
LR_O
DATA_O
N/C
VDD
GND
N/C
BKPOL_O
MODE0_O
N/C
N/C
MODE1_I
RESET
N/C
GND
N/C
MUTE_I
N/C
MUTE_O
MODE1_O
N/C
VCC_A3
C4603
0.1/UFV
DGND
FROM PCMCNT
FS64_SRCOUT
FROM PCMCNT
FS_SRCOUT
TO PCMCNT
SRC_OUT
DGND
VCC_A3
C4600
0.1/UFV
IC4600
C0JBAB000244
DGND
DIF_SRC_IN
FROM PCMCNT
DIF_BCK_SRC
FROM PCMCNT
DIF_LRCK_SRC
FROM PCMCNT
IC4602
AD1893JST
VCC_A3
C4604
0.1/UFV
DGND
FROM PCMCNT
DIF_FS64_SRCOUT
FROM PCMCNT
DIF_FS_SRCOUT
TO PCMCNT
DIF_SRC_OUT
DGND
A
B
C
D
E
F
G
H
I
J
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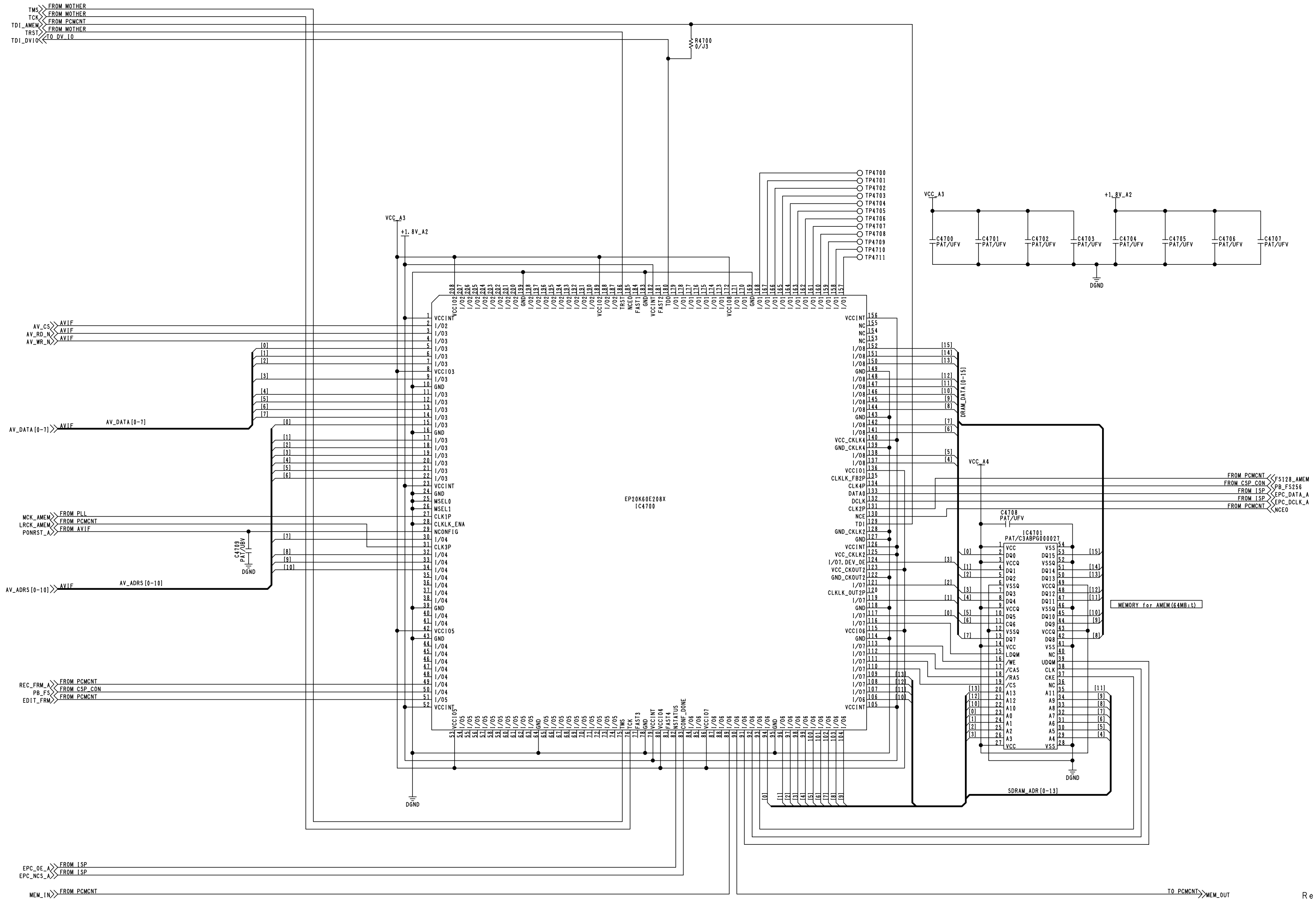
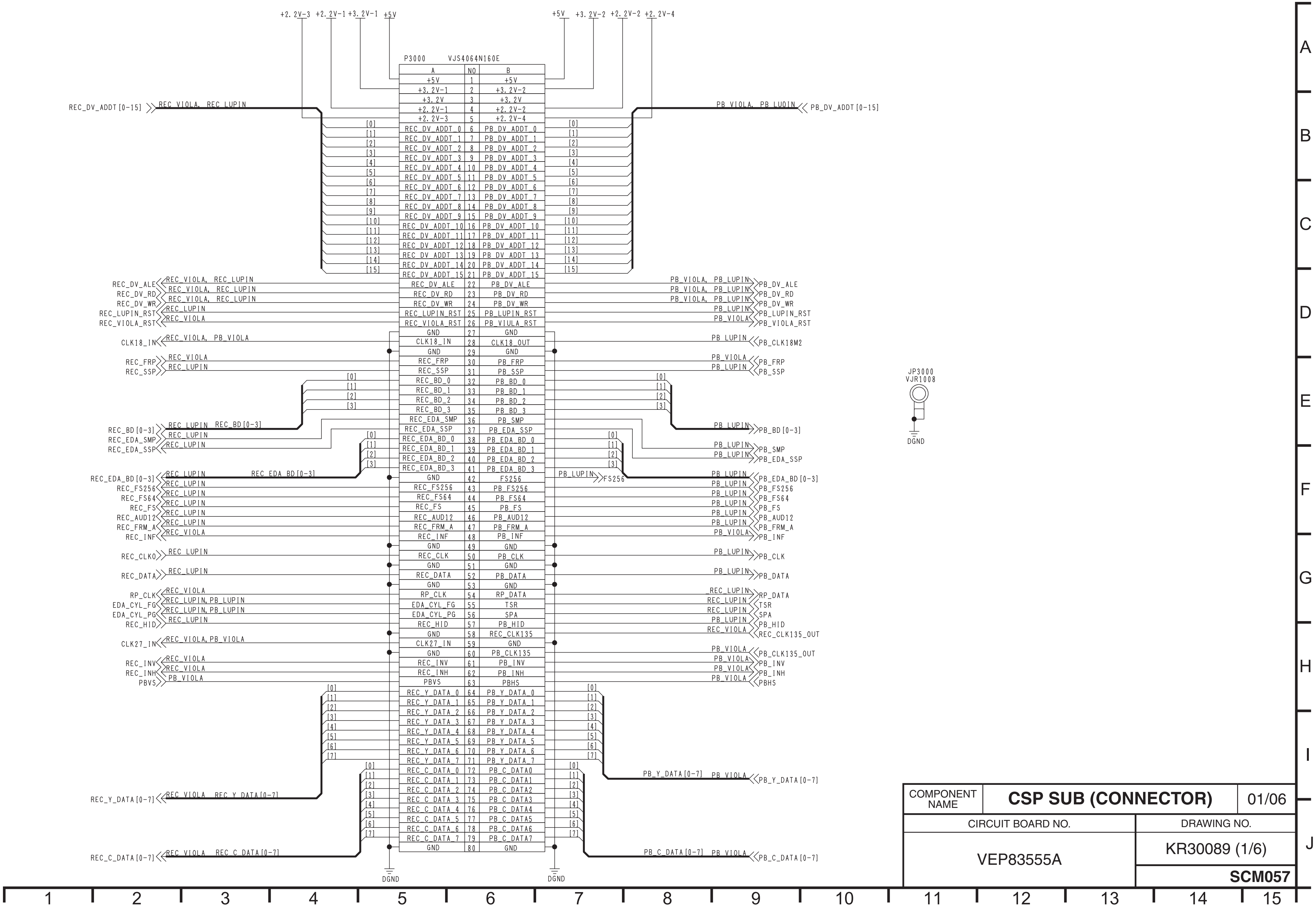
Ref. No. 4600-4699

COMPONENT NAME	F4:D PROC (SRC)	26/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (26/27)	
	SCM055	


TMS FROM MOTHER
TCK FROM MOTHER
TDI_AMEM FROM PCMCNT
TRST FROM MOTHER
TDI_DVIO TO DV IO
R4700 0/J3
TP4700
TP4701
TP4702
TP4703
TP4704
TP4705
TP4706
TP4707
TP4708
TP4709
TP4710
TP4711
VCC_A3
+1.8V_A2
C4700 PAT/UFV
C4701 PAT/UFV
C4702 PAT/UFV
C4703 PAT/UFV
C4704 PAT/UFV
C4705 PAT/UFV
C4706 PAT/UFV
C4707 PAT/UFV
DGND
AV_CS AVIF
AV_RD_N AVIF
AV_WR_N AVIF
AV_DATA[0-7] AVIF
AV_DATA[0-7]
MCK_AMEM FROM PLL
LRCK_AMEM FROM PCMCNT
PONRST_A FROM AVIF
C4709 PAT/UBV
AV_ADRS[0-10] AVIF
AV_ADRS[0-10]
REC_FRM_A FROM PCMCNT
PB_FS FROM CSP_CON
EDIT_FRM FROM PCMCNT
EP20K60E208X
IC4700
DRAM_DATA[0-15]
VCC_A4
C4708 PAT/UFV
IC4701 PAT/C3ABPG000027
MEMORY for AMEM(64MBit)
FROM PCMCNT FS128_AMEM
FROM CSP_CON PB_FS256
FROM ISP EPC_DATA_A
FROM ISP EPC_DCLK_A
FROM PCMCNT NCEO
SDRAM_ADR[0-13]
EPC_OE_A FROM ISP
EPC_NCS_A FROM ISP
MEM_IN FROM PCMCNT
TO PCMCNT MEM_OUT

Ref. No. 4700−4799

COMPONENT NAME	F4:D PROC (AMEM)	27/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554A	KR30088 (27/27)	
	SCM056	


+2.2V-3
+2.2V-1
+3.2V-1
+5V
+5V
+3.2V-2
+2.2V-2
+2.2V-4
P3000 VJS4064N160E
A NO B
+5V 1 +5V
+3.2V-1 2 +3.2V-2
+3.2V 3 +3.2V
+2.2V-1 4 +2.2V-2
+2.2V-3 5 +2.2V-4
REC_DV_ADDT_0 6 PB_DV_ADDT_0
REC_DV_ADDT_1 7 PB_DV_ADDT_1
REC_DV_ADDT_2 8 PB_DV_ADDT_2
REC_DV_ADDT_3 9 PB_DV_ADDT_3
REC_DV_ADDT_4 10 PB_DV_ADDT_4
REC_DV_ADDT_5 11 PB_DV_ADDT_5
REC_DV_ADDT_6 12 PB_DV_ADDT_6
REC_DV_ADDT_7 13 PB_DV_ADDT_7
REC_DV_ADDT_8 14 PB_DV_ADDT_8
REC_DV_ADDT_9 15 PB_DV_ADDT_9
REC_DV_ADDT_10 16 PB_DV_ADDT_10
REC_DV_ADDT_11 17 PB_DV_ADDT_11
REC_DV_ADDT_12 18 PB_DV_ADDT_12
REC_DV_ADDT_13 19 PB_DV_ADDT_13
REC_DV_ADDT_14 20 PB_DV_ADDT_14
REC_DV_ADDT_15 21 PB_DV_ADDT_15
REC_DV_ALE 22 PB_DV_ALE
REC_DV_RD 23 PB_DV_RD
REC_DV_WR 24 PB_DV_WR
REC_LUPIN_RST 25 PB_LUPIN_RST
REC_VIOLA_RST 26 PB_VIULA_RST
GND 27 GND
CLK18_IN 28 CLK18_OUT
GND 29 GND
REC_FRP 30 PB_FRP
REC_SSP 31 PB_SSP
REC_BD_0 32 PB_BD_0
REC_BD_1 33 PB_BD_1
REC_BD_2 34 PB_BD_2
REC_BD_3 35 PB_BD_3
REC_EDA_SMP 36 PB_SMP
REC_EDA_SSP 37 PB_EDA_SSP
REC_EDA_BD_0 38 PB_EDA_BD_0
REC_EDA_BD_1 39 PB_EDA_BD_1
REC_EDA_BD_2 40 PB_EDA_BD_2
REC_EDA_BD_3 41 PB_EDA_BD_3
GND 42 FS256
REC_FS256 43 PB_FS256
REC_FS64 44 PB_FS64
REC_FS 45 PB_FS
REC_AUD12 46 PB_AUD12
REC_FRM_A 47 PB_FRM_A
REC_INF 48 PB_INF
GND 49 GND
REC_CLK 50 PB_CLK
GND 51 GND
REC_DATA 52 PB_DATA
GND 53 GND
RP_CLK 54 RP_DATA
EDA_CYL_FG 55 TSR
EDA_CYL_PG 56 SPA
REC_HID 57 PB_HID
GND 58 REC_CLK135
CLK27_IN 59 GND
GND 60 PB_CLK135
REC_INV 61 PB_INV
REC_INH 62 PB_INH
PBVS 63 PBHS
REC_Y_DATA_0 64 PB_Y_DATA_0
REC_Y_DATA_1 65 PB_Y_DATA_1
REC_Y_DATA_2 66 PB_Y_DATA_2
REC_Y_DATA_3 67 PB_Y_DATA_3
REC_Y_DATA_4 68 PB_Y_DATA_4
REC_Y_DATA_5 69 PB_Y_DATA_5
REC_Y_DATA_6 70 PB_Y_DATA_6
REC_Y_DATA_7 71 PB_Y_DATA_7
REC_C_DATA_0 72 PB_C_DATA0
REC_C_DATA_1 73 PB_C_DATA1
REC_C_DATA_2 74 PB_C_DATA2
REC_C_DATA_3 75 PB_C_DATA3
REC_C_DATA_4 76 PB_C_DATA4
REC_C_DATA_5 77 PB_C_DATA5
REC_C_DATA_6 78 PB_C_DATA6
REC_C_DATA_7 79 PB_C_DATA7
GND 80 GND
REC_DV_ADDT[0-15] REC_VIOLA, REC_LUPIN
PB_VIOLA, PB_LUOIN PB_DV_ADDT[0-15]
REC_DV_ALE REC_VIOLA, REC_LUPIN
REC_DV_RD REC_VIOLA, REC_LUPIN
REC_DV_WR REC_VIOLA, REC_LUPIN
REC_LUPIN_RST REC_LUPIN
REC_VIOLA_RST REC_VIOLA
CLK18_IN REC_VIOLA, PB_VIOLA
REC_FRP REC_VIOLA
REC_SSP REC_LUPIN
REC_BD[0-3] REC_LUPIN REC_BD[0-3]
REC_EDA_SMP REC_LUPIN
REC_EDA_SSP REC_LUPIN
REC_EDA_BD[0-3] REC_LUPIN REC_EDA_BD[0-3]
REC_FS256 REC_LUPIN
REC_FS64 REC_LUPIN
REC_FS REC_LUPIN
REC_AUD12 REC_LUPIN
REC_FRM_A REC_LUPIN
REC_INF REC_VIOLA
REC_CLKO REC_LUPIN
REC_DATA REC_LUPIN
RP_CLK REC_VIOLA
EDA_CYL_FG REC_LUPIN, PB_LUPIN
EDA_CYL_PG REC_LUPIN, PB_LUPIN
REC_HID REC_LUPIN
CLK27_IN REC_VIOLA, PB_VIOLA
REC_INV REC_VIOLA
REC_INH REC_VIOLA
PBVS PB_VIOLA
REC_Y_DATA[0-7] REC_VIOLA REC_Y_DATA[0-7]
REC_C_DATA[0-7] REC_VIOLA REC_C_DATA[0-7]
PB_VIOLA, PB_LUPIN PB_DV_ALE
PB_VIOLA, PB_LUPIN PB_DV_RD
PB_VIOLA, PB_LUPIN PB_DV_WR
PB_LUPIN PB_LUPIN_RST
PB_VIOLA PB_VIOLA_RST
PB_LUPIN PB_CLK18M2
PB_VIOLA PB_FRP
PB_LUPIN PB_SSP
PB_LUPIN PB_BD[0-3]
PB_LUPIN PB_SMP
PB_LUPIN PB_EDA_SSP
PB_LUPIN FS256
PB_LUPIN PB_EDA_BD[0-3]
PB_LUPIN PB_FS256
PB_LUPIN PB_FS64
PB_LUPIN PB_FS
PB_LUPIN PB_AUD12
PB_LUPIN PB_FRM_A
PB_VIOLA PB_INF
PB_LUPIN PB_CLK
PB_LUPIN PB_DATA
REC_LUPIN RP_DATA
REC_LUPIN TSR
REC_LUPIN SPA
PB_LUPIN PB_HID
REC_VIOLA REC_CLK135_OUT
PB_VIOLA PB_CLK135_OUT
PB_VIOLA PB_INV
PB_VIOLA PB_INH
PB_VIOLA PBHS
PB_Y_DATA[0-7] PB_VIOLA PB_Y_DATA[0-7]
PB_C_DATA[0-7] PB_VIOLA PB_C_DATA[0-7]
JP3000 VJR1008
DGND
DGND
DGND
A
B
C
D
E
F
G
H
I
J
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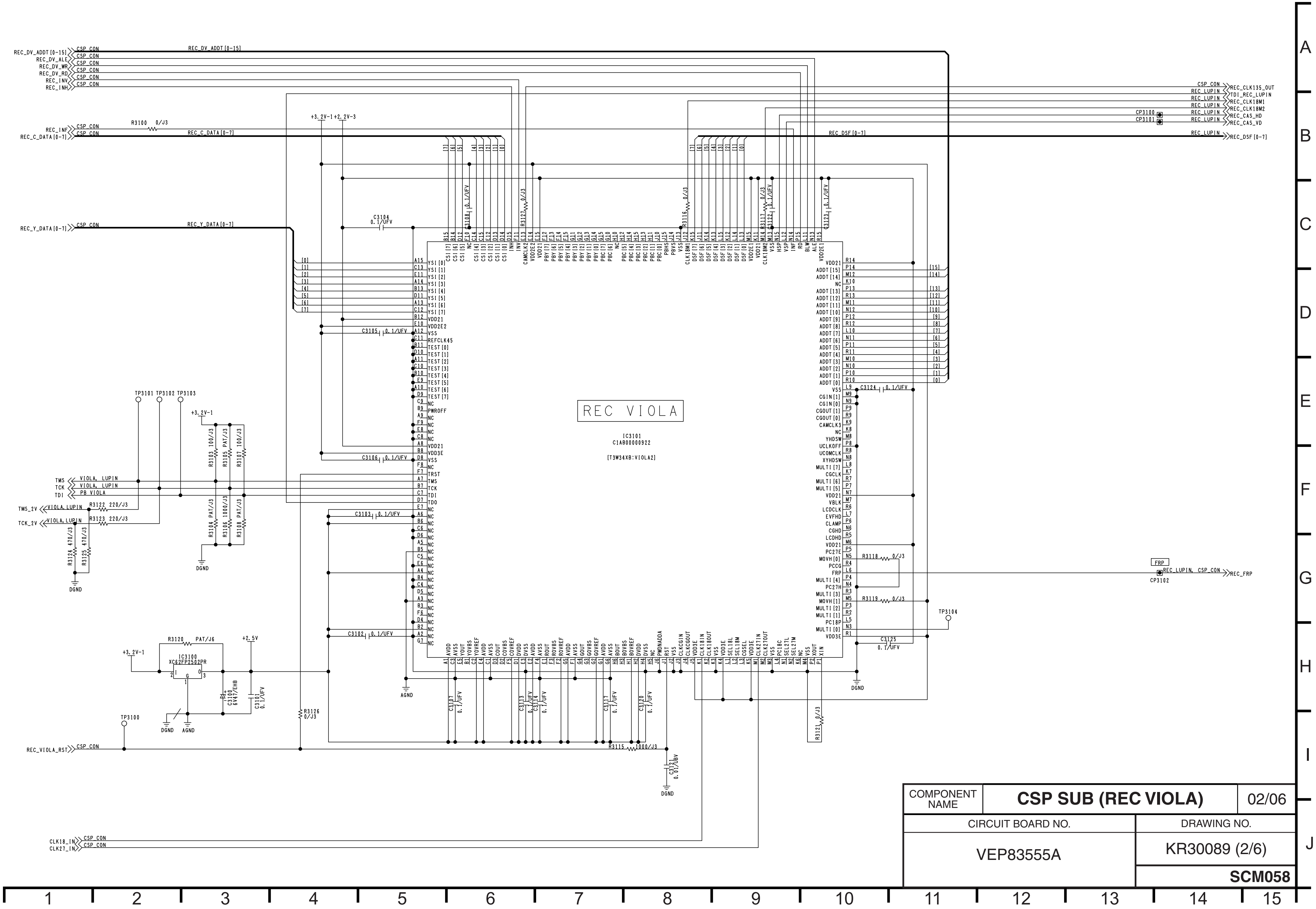
COMPONENT NAME	CSP SUB (CONNECTOR)	01/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (1/6)	
	SCM057	


REC_DV_ADDT[0-15]
REC_DV_ALE
REC_DV_WR
REC_DV_RD
REC_INV
REC_INH
REC_INF
REC_C_DATA[0-7]
REC_Y_DATA[0-7]
CSP_CON
R3100 0/J3
+3.2V-1
+2.2V-3
C3104 0.1/UFV
REC_CLK135_OUT
TDI_REC_LUPIN
REC_CLK18M1
REC_CLK18M2
REC_CAS_HD
REC_CAS_VD
REC_DSF[0-7]
REC_LUPIN
CP3100
CP3101
REC VIOLA
IC3101
C1AB00000922
[T3W34XB:VIOLA2]
TP3101
TP3102
TP3103
TP3104
TMS
TCK
TDI
VIOLA, LUPIN
PB VIOLA
TMS_2V
TCK_2V
R3122 220/J3
R3123 220/J3
R3124 470/J3
R3125 470/J3
R3103 100/J3
R3105 PAT/J3
R3107 100/J3
R3104 PAT/J3
R3106 1000/J3
R3108 PAT/J3
DGND
AGND
C3105 0.1/UFV
C3106 0.1/UFV
C3103 0.1/UFV
C3102 0.1/UFV
C3124 0.1/UFV
C3125 0.1/UFV
R3118 0/J3
R3119 0/J3
FRP
CP3102
REC_FRP
R3120 PAT/J6
IC3100
XC62FP2502PR
+2.5V
C3100 6V47/EHB
C3101 0.1/UFV
R3126 0/J3
TP3100
REC_VIOLA_RST
R3115 1000/J3
R3121 0/J3
C3107 0.1/UFV
C3113 0.1/UFV
C3114 0.1/UFV
C3117 0.1/UFV
C3120 0.1/UFV
C3108 0.1/UFV
C3122 0.1/UFV
C3123 0.1/UFV
R3127 0/J3
R3116 0/J3
R3117 0/J3
CLK18_IN
CLK27_IN
A
B
C
D
E
F
G
H
I
J
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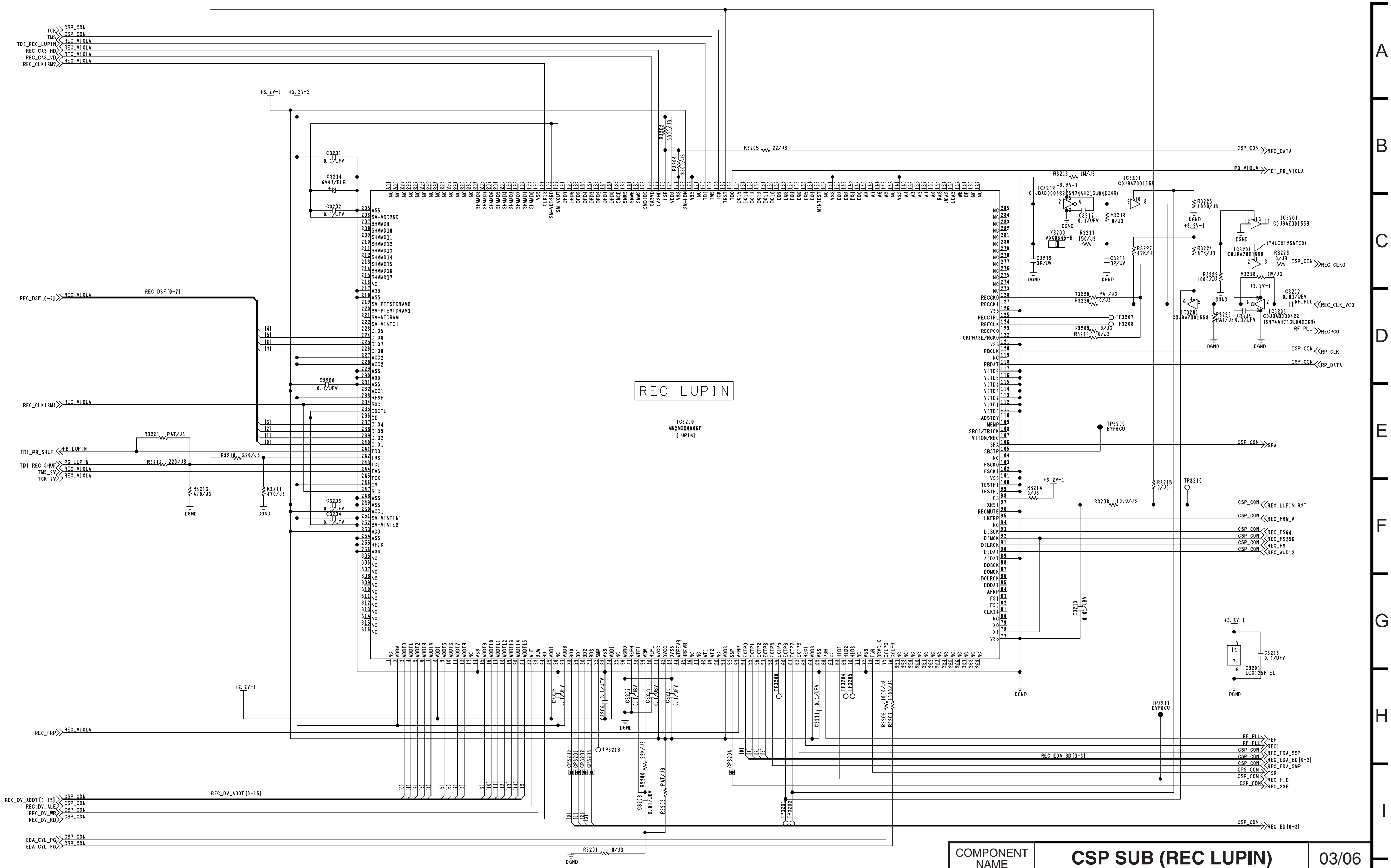
COMPONENT NAME	CSP SUB (REC VIOLA)	02/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (2/6)	
	SCM058	


REC LUPIN
IC3200
MN2MD00006F
[LUPIN]
TCK
TMS
TDI_REC_LUPIN
REC_CAS_HD
REC_CAS_VD
REC_CLK18M2
REC_DSF[0-7]
REC_CLK18M1
TDI_PB_SHUF
TDI_REC_SHUF
TMS_2V
TCK_2V
REC_FRP
REC_DV_ADDT[0-15]
REC_DV_ALE
REC_DV_WR
REC_DV_RD
EDA_CYL_PG
EDA_CYL_FG
REC_DATA
TDI_PB_VIOLA
REC_CLKO
REC_CLK_VCO
RECPCO
RP_CLK
RP_DATA
SPA
REC_LUPIN_RST
REC_FRM_A
REC_FS64
REC_FS256
REC_FS
REC_AUD12
PBH
RECI
REC_EDA_SSP
REC_EDA_BD[0-3]
REC_EDA_SMP
TSR
REC_HID
REC_SSP
REC_BD[0-3]
+3.2V-1
+2.2V-3
+2.2V-1
DGND
A
B
C
D
E
F
G
H
I
J
1
2
3
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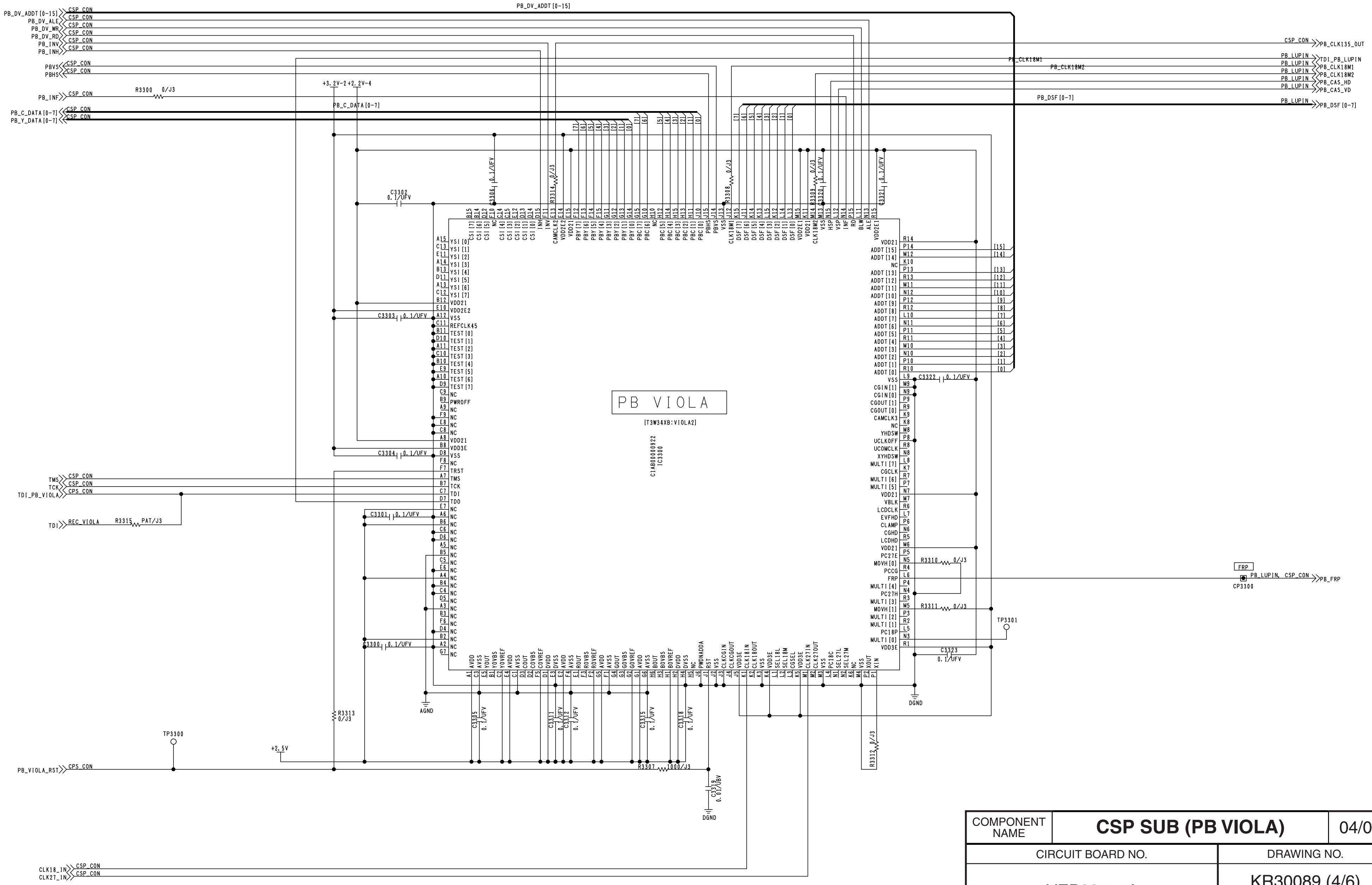
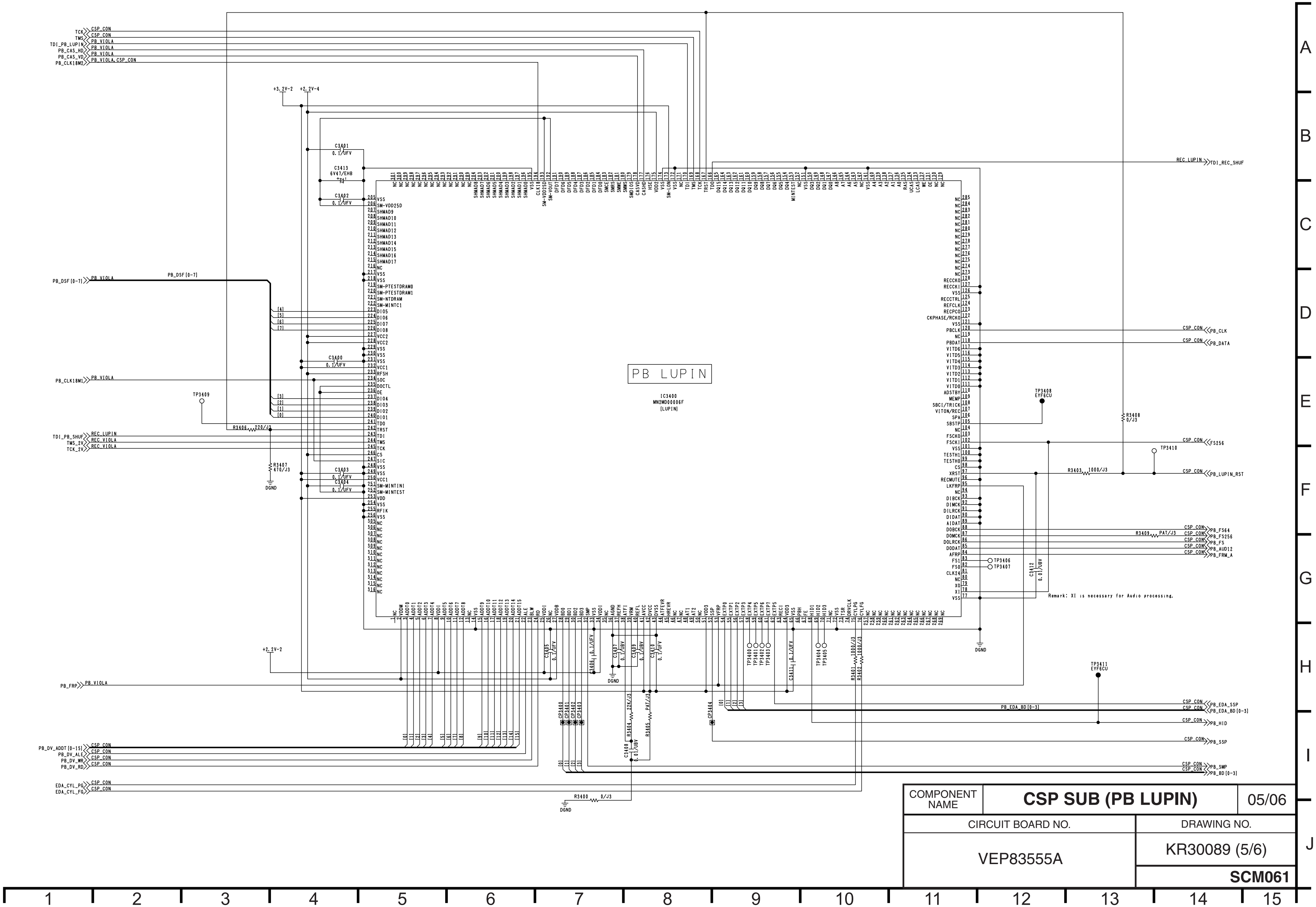
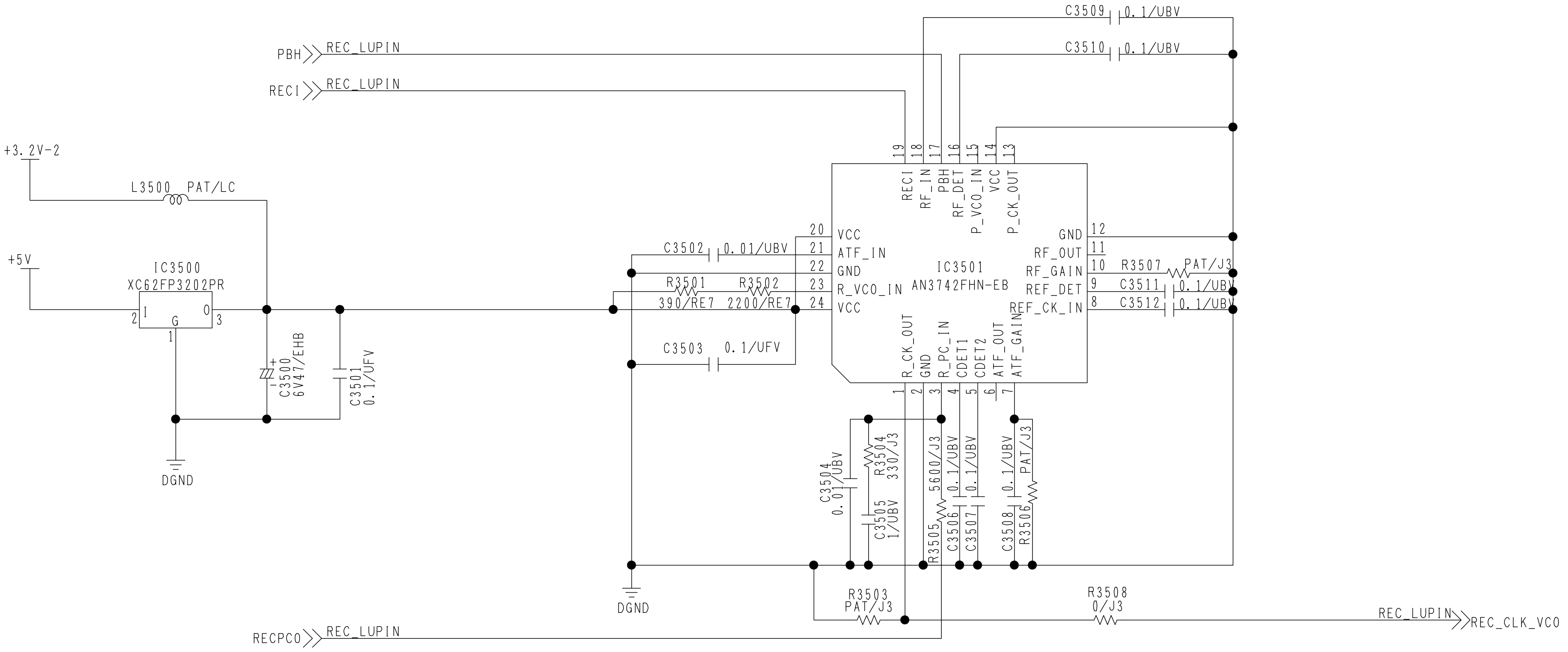
COMPONENT NAME	CSP SUB (REC LUPIN)	03/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (3/6)	
	SCM059	


PB_DV_ADDT[0-15]
PB_DV_ALE
PB_DV_WR
PB_DV_RD
PB_INV
PB_INH
PBVS
PBHS
PB_INF
PB_C_DATA[0-7]
PB_Y_DATA[0-7]
CSP_CON
R3300 0/J3
+3.2V-2
+2.2V-4
PB_C_DATA[0-7]
PB_DV_ADDT[0-15]
PB_CLK135_OUT
TDI_PB_LUPIN
PB_CLK18M1
PB_CLK18M2
PB_CAS_HD
PB_CAS_VD
PB_DSF[0-7]
PB_LUPIN
C3302 0.1/UFV
C3306 0.1/UFV
R3314 0/J3
R3308 0/J3
R3309 0/J3
C3320 0.1/UFV
C3321 0.1/UFV
C3303 0.1/UFV
C3304 0.1/UFV
C3301 0.1/UFV
C3300 0.1/UFV
C3322 0.1/UFV
C3323 0.1/UFV
PB VIOLA
[T3W34XB:VIOLA2]
C1AB00000922
IC3300
TMS
TCK
TDI_PB_VIOLA
CPS_CON
TDI
REC_VIOLA
R3315 PAT/J3
R3310 0/J3
R3311 0/J3
FRP
PB_LUPIN, CSP_CON
PB_FRP
CP3300
TP3301
AGND
DGND
R3313 0/J3
C3305 0.1/UFV
C3311 0.1/UFV
C3312 0.1/UFV
C3315 0.1/UFV
C3318 0.1/UFV
TP3300
+2.5V
PB_VIOLA_RST
R3307 1000/J3
C3319 0.01/UBV
R3312 0/J3
CLK18_IN
CLK27_IN

COMPONENT NAME	CSP SUB (PB VIOLA)		04/06
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83555A		KR30089 (4/6)	
		SCM060	

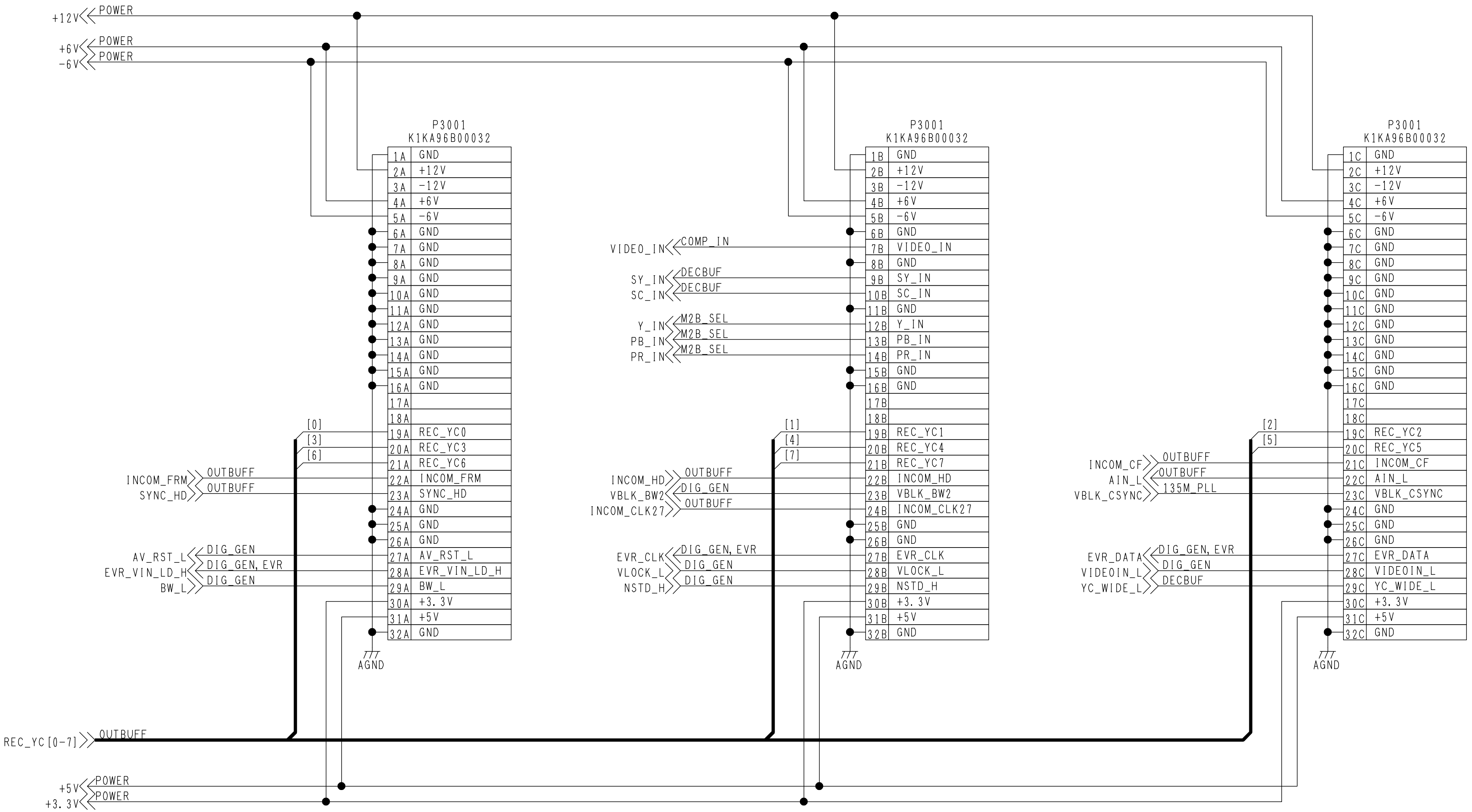

PB LUPIN
IC3400
MN2MD00006F
[LUPIN]
TCK
TMS
TDI_PB_LUPIN
PB_CAS_HD
PB_CAS_VD
PB_CLK18M2
CSP_CON
PB_VIOLA
PB_VIOLA,CSP_CON
+3.2V-2
+2.2V-4
C3401 0.1/UFV
C3413 6V47/EHB
C3402 0.1/UFV
PB_DSF[0-7]
C3400 0.1/UFV
PB_CLK18M1
TP3409
R3406 220/J3
R3407 470/J3
TDI_PB_SHUF
TMS_2V
TCK_2V
REC_LUPIN
REC_VIOLA
C3403 0.1/UFV
C3404 0.1/UFV
DGND
+2.2V-2
PB_FRP
PB_DV_ADDT[0-15]
PB_DV_ALE
PB_DV_WR
PB_DV_RD
EDA_CYL_PG
EDA_CYL_FG
R3400 0/J3
C3405 0.1/UFV
C3406 0.1/UFV
C3407 0.1/UBV
C3409 0.1/UBV
C3410 0.1/UFV
C3408 0.1/UBV
R3404 22K/J3
R3405 PAT/J3
CP3400
CP3401
CP3402
CP3403
CP3404
TP3400
TP3401
TP3402
TP3403
C3411 0.1/UFV
TP3404
TP3405
R3401 1000/J3
R3402 1000/J3
REC_LUPIN
TDI_REC_SHUF
PB_CLK
PB_DATA
TP3408 EYF6CU
R3408 0/J3
FS256
TP3410
R3403 1000/J3
PB_LUPIN_RST
R3409 PAT/J3
PB_FS64
PB_FS256
PB_FS
PB_AUD12
PB_FRM_A
TP3406
TP3407
C3412 0.01/UBV
Remark: XI is necessary for Audio processing.
TP3411 EYF6CU
PB_EDA_SSP
PB_EDA_BD[0-3]
PB_HID
PB_SSP
PB_SMP
PB_BD[0-3]
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	CSP SUB (PB LUPIN)	05/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (5/6)	
	SCM061	

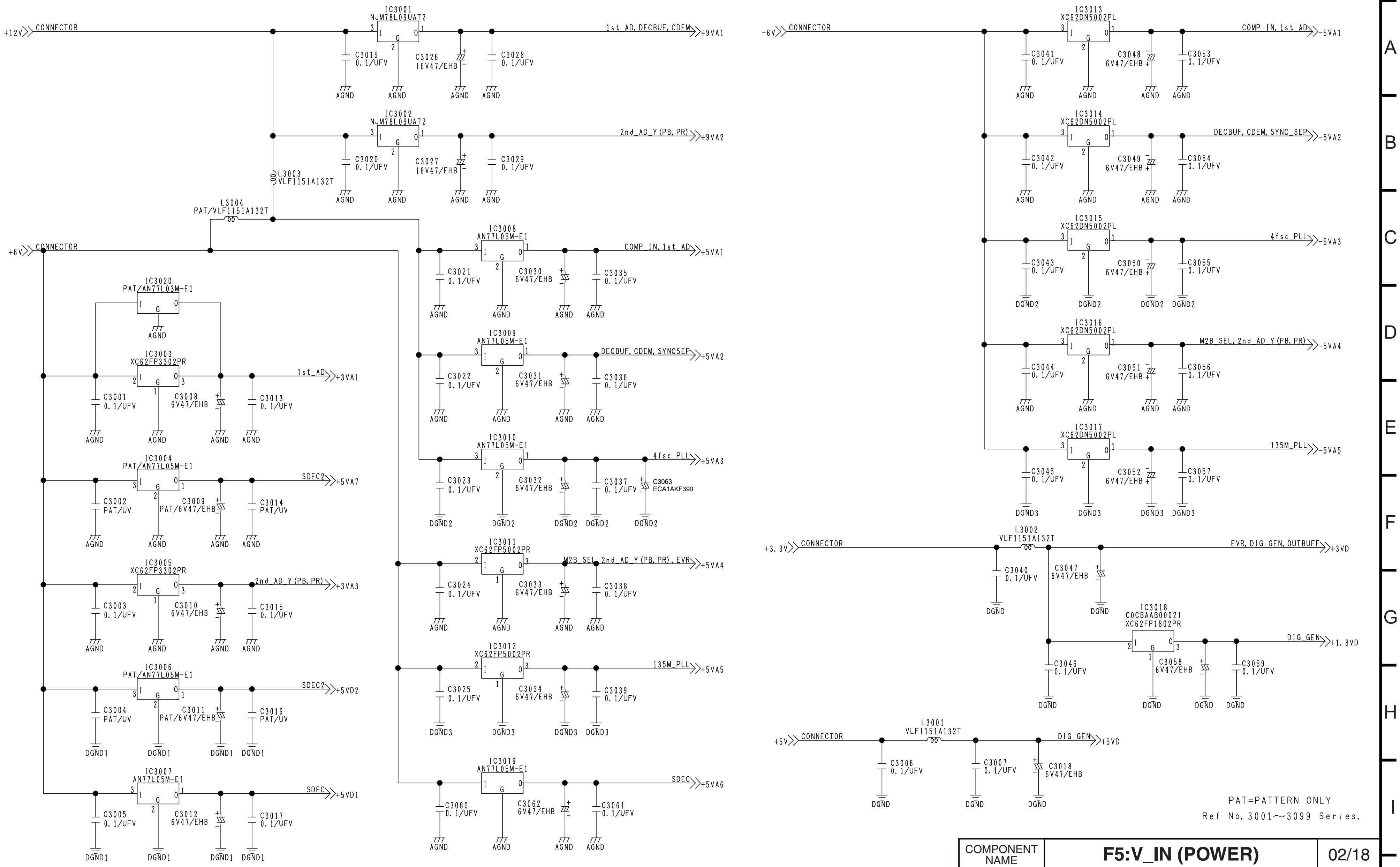

PBH
REC_LUPIN
RECI
REC_LUPIN
RECPCO
REC_LUPIN
REC_LUPIN
REC_CLK_VCO
+3.2V-2
L3500 PAT/LC
+5V
IC3500
XC62FP3202PR
I
O
G
C3500
6V47/EHB
C3501
0.1/UFV
DGND
DGND
C3502 0.01/UBV
R3501
390/RE7
R3502
2200/RE7
C3503 0.1/UFV
IC3501
AN3742FHN-EB
VCC
ATF_IN
GND
R_VCO_IN
VCC
RECI
RF_IN
PBH
RF_DET
P_VCO_IN
VCC
P_CK_OUT
GND
RF_OUT
RF_GAIN
REF_DET
REF_CK_IN
R_CK_OUT
GND
R_PC_IN
CDET1
CDET2
ATF_OUT
ATF_GAIN
C3509 0.1/UBV
C3510 0.1/UBV
R3507 PAT/J3
C3511 0.1/UBV
C3512 0.1/UBV
C3504
0.01/UBV
R3504
330/J3
C3505
1/UBV
R3505
5600/J3
C3506
0.1/UBV
C3507
0.1/UBV
C3508
0.1/UBV
R3506
PAT/J3
R3503
PAT/J3
R3508
0/J3

Ref No.3500～ Series.

COMPONENT NAME	CSP SUB (RF_PLL)	06/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (6/6)	
	SCM062	


+12V POWER
+6V POWER
-6V POWER
P3001
K1KA96B00032
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A GND
7A GND
8A GND
9A GND
10A GND
11A GND
12A GND
13A GND
14A GND
15A GND
16A GND
17A
18A
19A REC_YC0
20A REC_YC3
21A REC_YC6
22A INCOM_FRM
23A SYNC_HD
24A GND
25A GND
26A GND
27A AV_RST_L
28A EVR_VIN_LD_H
29A BW_L
30A +3.3V
31A +5V
32A GND
[0]
[3]
[6]
INCOM_FRM OUTBUFF
SYNC_HD OUTBUFF
AV_RST_L DIG_GEN
EVR_VIN_LD_H DIG_GEN, EVR
BW_L DIG_GEN
AGND
P3001
K1KA96B00032
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B GND
7B VIDEO_IN
8B GND
9B SY_IN
10B SC_IN
11B GND
12B Y_IN
13B PB_IN
14B PR_IN
15B GND
16B GND
17B
18B
19B REC_YC1
20B REC_YC4
21B REC_YC7
22B INCOM_HD
23B VBLK_BW2
24B INCOM_CLK27
25B GND
26B GND
27B EVR_CLK
28B VLOCK_L
29B NSTD_H
30B +3.3V
31B +5V
32B GND
VIDEO_IN COMP_IN
SY_IN DECBUF
SC_IN DECBUF
Y_IN M2B_SEL
PB_IN M2B_SEL
PR_IN M2B_SEL
[1]
[4]
[7]
INCOM_HD OUTBUFF
VBLK_BW2 DIG_GEN
INCOM_CLK27 OUTBUFF
EVR_CLK DIG_GEN, EVR
VLOCK_L DIG_GEN
NSTD_H DIG_GEN
AGND
P3001
K1KA96B00032
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C GND
7C GND
8C GND
9C GND
10C GND
11C GND
12C GND
13C GND
14C GND
15C GND
16C GND
17C
18C
19C REC_YC2
20C REC_YC5
21C INCOM_CF
22C AIN_L
23C VBLK_CSYNC
24C GND
25C GND
26C GND
27C EVR_DATA
28C VIDEOIN_L
29C YC_WIDE_L
30C +3.3V
31C +5V
32C GND
[2]
[5]
INCOM_CF OUTBUFF
AIN_L OUTBUFF
VBLK_CSYNC 135M_PLL
EVR_DATA DIG_GEN, EVR
VIDEOIN_L DIG_GEN
YC_WIDE_L DECBUF
AGND
REC_YC[0-7] OUTBUFF
+5V POWER
+3.3V POWER

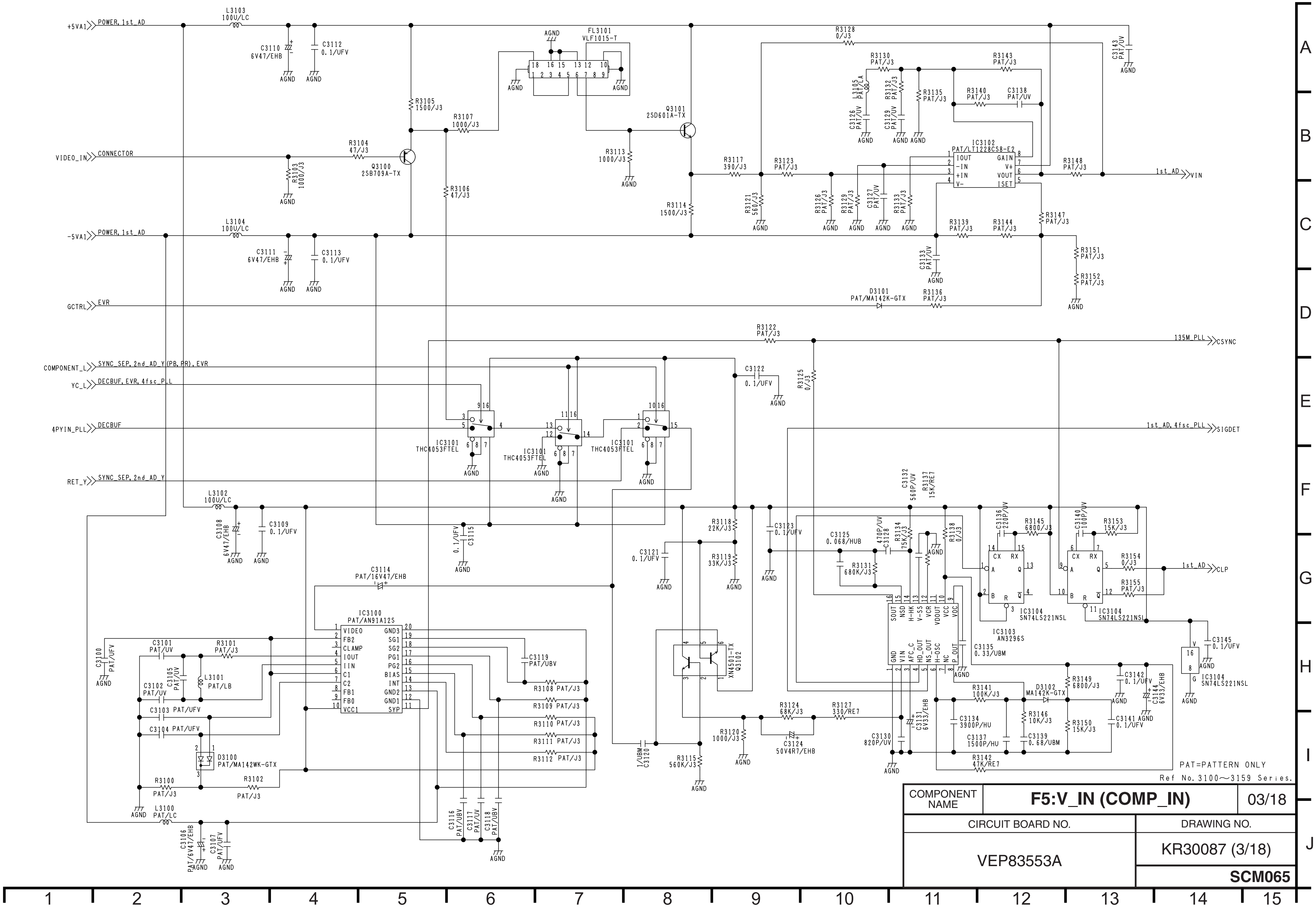
COMPONENT NAME	F5:V_IN (CONNECTOR)	01/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087(1/18)	
	SCM063	


+12V CONNECTOR
IC3001 NJM78L09UAT2
C3019 0.1/UFV
C3026 16V47/EHB
C3028 0.1/UFV
1st_AD, DECBUF, CDEM +9VA1
IC3002 NJM78L09UAT2
C3020 0.1/UFV
C3027 16V47/EHB
C3029 0.1/UFV
2nd_AD_Y (PB, PR) +9VA2
L3003 VLF1151A132T
L3004 PAT/VLF1151A132T
+6V CONNECTOR
IC3020 PAT/AN77L03M-E1
IC3003 XC62FP3302PR
C3001 0.1/UFV
C3008 6V47/EHB
C3013 0.1/UFV
1st_AD +3VA1
IC3004 PAT/AN77L05M-E1
C3002 PAT/UV
C3009 PAT/6V47/EHB
C3014 PAT/UV
SDEC2 +5VA7
IC3005 XC62FP3302PR
C3003 0.1/UFV
C3010 6V47/EHB
C3015 0.1/UFV
2nd_AD_Y (PB, PR) +3VA3
IC3006 PAT/AN77L05M-E1
C3004 PAT/UV
C3011 PAT/6V47/EHB
C3016 PAT/UV
SDEC2 +5VD2
IC3007 AN77L05M-E1
C3005 0.1/UFV
C3012 6V47/EHB
C3017 0.1/UFV
SDEC +5VD1
IC3008 AN77L05M-E1
C3021 0.1/UFV
C3030 6V47/EHB
C3035 0.1/UFV
COMP_IN, 1st_AD +5VA1
IC3009 AN77L05M-E1
C3022 0.1/UFV
C3031 6V47/EHB
C3036 0.1/UFV
DECBUF, CDEM, SYNCSEP +5VA2
IC3010 AN77L05M-E1
C3023 0.1/UFV
C3032 6V47/EHB
C3037 0.1/UFV
C3063 ECA1AKF390
4fsc_PLL +5VA3
IC3011 XC62FP5002PR
C3024 0.1/UFV
C3033 6V47/EHB
C3038 0.1/UFV
M2B_SEL, 2nd_AD_Y (PB, PR), EVR +5VA4
IC3012 XC62FP5002PR
C3025 0.1/UFV
C3034 6V47/EHB
C3039 0.1/UFV
135M_PLL +5VA5
IC3019 AN77L05M-E1
C3060 0.1/UFV
C3062 6V47/EHB
C3061 0.1/UFV
SDEC +5VA6
-6V CONNECTOR
IC3013 XC62DN5002PL
C3041 0.1/UFV
C3048 6V47/EHB
C3053 0.1/UFV
COMP_IN, 1st_AD -5VA1
IC3014 XC62DN5002PL
C3042 0.1/UFV
C3049 6V47/EHB
C3054 0.1/UFV
DECBUF, CDEM, SYNC_SEP -5VA2
IC3015 XC62DN5002PL
C3043 0.1/UFV
C3050 6V47/EHB
C3055 0.1/UFV
4fsc_PLL -5VA3
IC3016 XC62DN5002PL
C3044 0.1/UFV
C3051 6V47/EHB
C3056 0.1/UFV
M2B_SEL, 2nd_AD_Y (PB, PR) -5VA4
IC3017 XC62DN5002PL
C3045 0.1/UFV
C3052 6V47/EHB
C3057 0.1/UFV
135M_PLL -5VA5
+3.3V CONNECTOR
L3002 VLF1151A132T
C3040 0.1/UFV
C3047 6V47/EHB
EVR, DIG_GEN, OUTBUFF +3VD
IC3018 C0CBAAB00021 XC62FP1802PR
C3046 0.1/UFV
C3058 6V47/EHB
C3059 0.1/UFV
DIG_GEN +1.8VD
+5V CONNECTOR
L3001 VLF1151A132T
C3006 0.1/UFV
C3007 0.1/UFV
C3018 6V47/EHB
DIG_GEN +5VD
AGND
DGND
DGND1
DGND2
DGND3

PAT=PATTERN ONLY

Ref No. 3001～3099 Series.

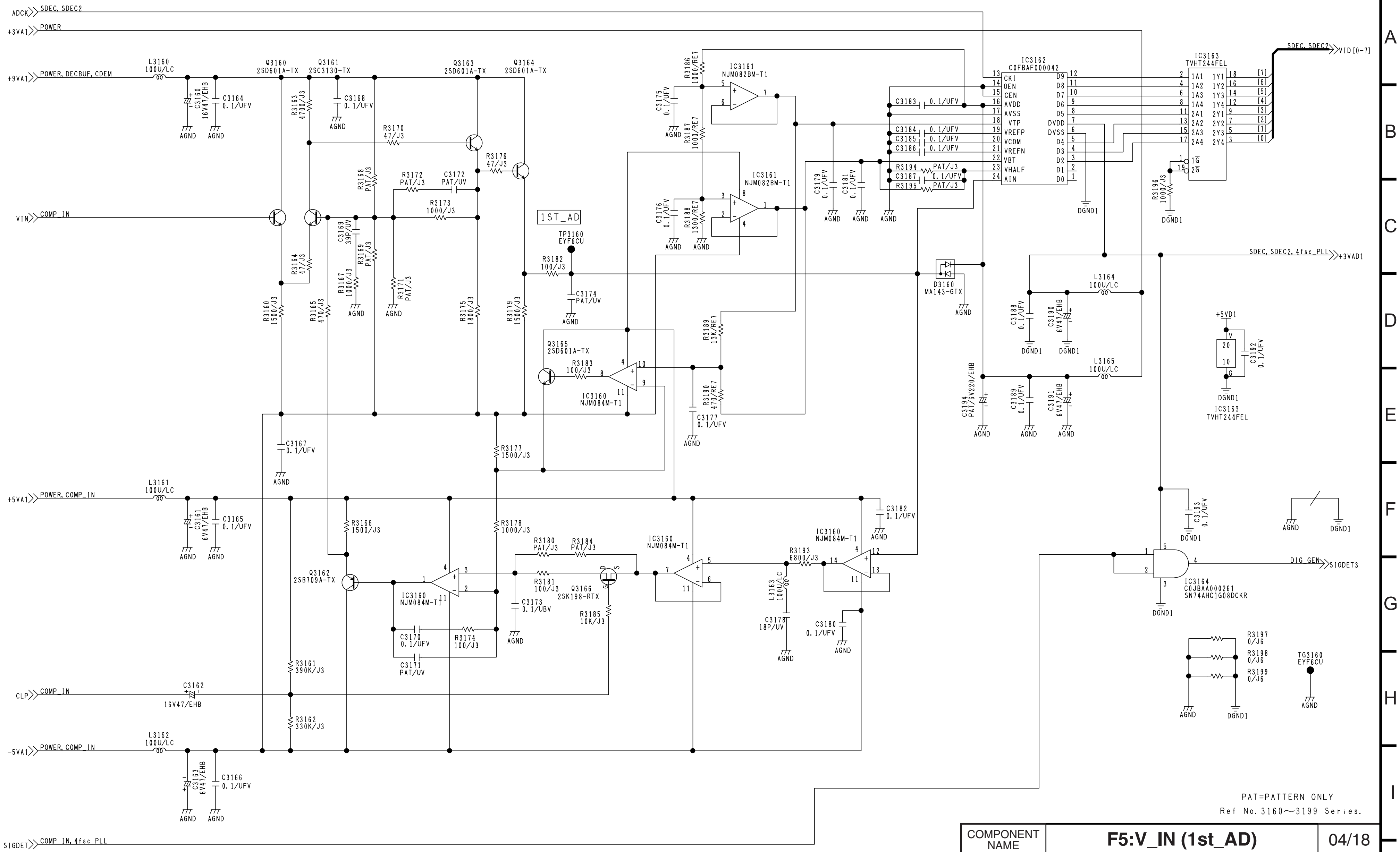
COMPONENT NAME	F5:V_IN (POWER)	02/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (2/18)	
	SCM064	


+5VA1
POWER,1st_AD
L3103 100U/LC
C3110 6V47/EHB
C3112 0.1/UFV
AGND
FL3101 VLF1015-T
R3105 1500/J3
R3107 1000/J3
Q3101 2SD601A-TX
VIDEO_IN
CONNECTOR
R3104 47/J3
Q3100 2SB709A-TX
R3103 1000/J3
R3106 47/J3
R3113 1000/J3
R3114 1500/J3
-5VA1
POWER,1st_AD
L3104 100U/LC
C3111 6V47/EHB
C3113 0.1/UFV
GCTRL
EVR
R3128 0/J3
R3130 PAT/J3
R3143 PAT/J3
C3143 PAT/UV
L3105 PAT/LA
R3132 PAT/J3
R3135 PAT/J3
R3140 PAT/J3
C3138 PAT/UV
C3126 PAT/UV
C3129 PAT/UV
IC3102 PAT/LT1228CS8-E2
IOUT GAIN -IN V+ +IN VOUT V- ISET
R3117 390/J3
R3123 PAT/J3
R3148 PAT/J3
1st_AD
VIN
R3121 560/J3
R3126 PAT/J3
R3129 PAT/J3
C3127 PAT/UV
R3133 PAT/J3
R3147 PAT/J3
R3139 PAT/J3
R3144 PAT/J3
R3151 PAT/J3
R3152 PAT/J3
C3133 PAT/UV
D3101 PAT/MA142K-GTX
R3136 PAT/J3
R3122 PAT/J3
135M_PLL
CSYNC
COMPONENT_L
SYNC_SEP,2nd_AD_Y(PB,PR),EVR
YC_L
DECBUF,EVR,4fsc_PLL
4PYIN_PLL
DECBUF
RET_Y
SYNC_SEP,2nd_AD_Y
C3122 0.1/UFV
R3125 0/J3
IC3101 THC4053FTEL
1st_AD,4fsc_PLL
SIGDET
L3102 100U/LC
C3108 6V47/EHB
C3109 0.1/UFV
C3115 0.1/UFV
C3132 560P/UV
R3137 15K/RE7
R3118 22K/J3
R3119 33K/J3
C3121 0.1/UFV
C3123 0.1/UFV
C3125 0.068/HUB
C3128 470P/UV
R3134 75K/J3
R3138 0/J3
R3131 680K/J3
C3136 220P/UV
R3145 6800/J3
C3140 100P/UV
R3153 15K/J3
R3154 0/J3
R3155 PAT/J3
1st_AD
CLP
IC3104 SN74LS221NSL
CX RX A Q B R
C3114 PAT/16V47/EHB
IC3100 PAT/AN91A12S
VIDEO FB2 CLAMP IOUT IIN C1 C2 FB1 FB0 VCC1
GND3 SG1 SG2 PG1 PG2 BIAS INT GND2 GND1 SYP
C3100 PAT/UFV
C3101 PAT/UV
R3101 PAT/J3
C3105 PAT/UV
L3101 PAT/LB
C3102 PAT/UV
C3103 PAT/UFV
C3104 PAT/UFV
D3100 PAT/MA142WK-GTX
R3100 PAT/J3
R3102 PAT/J3
L3100 PAT/LC
C3106 PAT/6V47/EHB
C3107 PAT/UFV
C3119 PAT/UBV
R3108 PAT/J3
R3109 PAT/J3
R3110 PAT/J3
R3111 PAT/J3
R3112 PAT/J3
C3116 PAT/UBV
C3117 PAT/UV
C3118 PAT/UBV
Q3102 XN4501-TX
C3120 1/UBM
R3115 560K/J3
R3120 1000/J3
R3124 68K/J3
R3127 330/RE7
C3124 50V4R7/EHB
C3130 820P/UV
C3131 6V33/EHB
IC3103 AN3296S
SOUT NSD H-HK V-SS VCR VDOUT VCC VOC
GND VIN AFC_C HD_OUT NS_OUT H-OSC NC P_OUT
C3135 0.33/UBM
R3141 100K/J3
D3102 MA142K-GTX
R3149 6800/J3
C3142 0.1/UFV
C3144 6V33/EHB
C3145 0.1/UFV
C3134 3900P/HU
C3137 1500P/HU
R3146 10K/J3
C3139 0.68/UBM
R3150 15K/J3
C3141 0.1/UFV
R3142 47K/RE7
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY

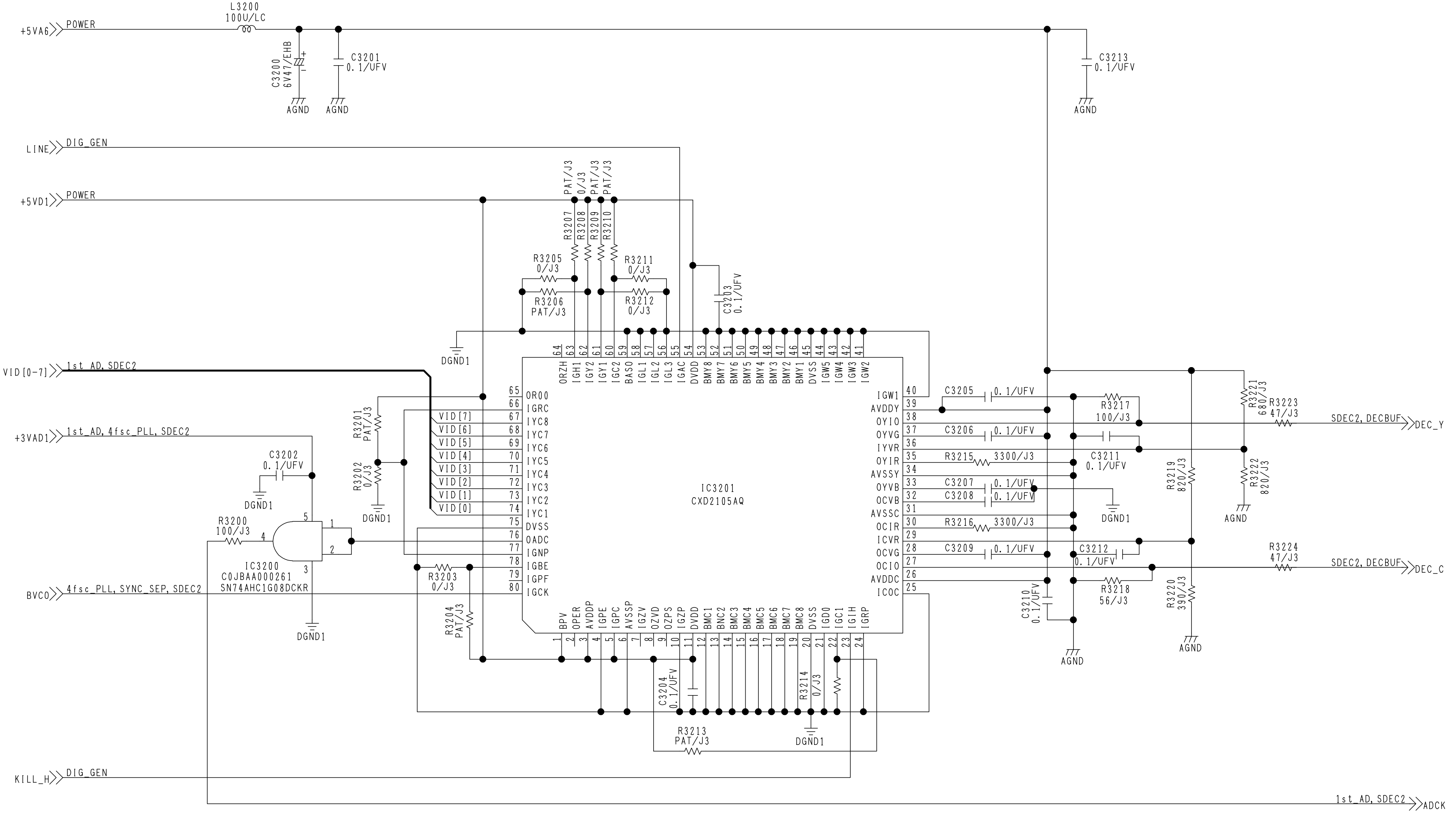
Ref No. 3100～3159 Series.

COMPONENT NAME	F5:V_IN (COMP_IN)	03/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (3/18)	
	SCM065	


ADCK
SDEC, SDEC2
+3VA1
POWER
+9VA1
POWER, DECBUF, CDEM
L3160 100U/LC
C3160 16V47/EHB
C3164 0.1/UFV
Q3160 2SD601A-TX
Q3161 2SC3130-TX
Q3163 2SD601A-TX
Q3164 2SD601A-TX
R3163 4700/J3
C3168 0.1/UFV
R3170 47/J3
R3176 47/J3
R3168 PAT/J3
R3172 PAT/J3
C3172 PAT/UV
R3173 1000/J3
VIN
COMP_IN
C3169 39P/UV
R3169 PAT/J3
R3164 47/J3
R3167 1000/J3
R3171 PAT/J3
R3160 1500/J3
R3165 470/J3
R3175 1800/J3
R3179 1500/J3
1ST_AD
TP3160 EYF6CU
R3182 100/J3
C3174 PAT/UV
Q3165 2SD601A-TX
R3183 100/J3
IC3160 NJM084M-T1
C3167 0.1/UFV
R3177 1500/J3
+5VA1
POWER, COMP_IN
L3161 100U/LC
C3161 6V47/EHB
C3165 0.1/UFV
R3166 1500/J3
R3178 1000/J3
Q3162 2SB709A-TX
R3180 PAT/J3
R3184 PAT/J3
R3181 100/J3
Q3166 2SK198-RTX
C3173 0.1/UBV
R3185 10K/J3
C3170 0.1/UFV
R3174 100/J3
C3171 PAT/UV
R3161 390K/J3
CLP
C3162 16V47/EHB
R3162 330K/J3
-5VA1
L3162 100U/LC
C3163 6V47/EHB
C3166 0.1/UFV
SIGDET
COMP_IN, 4fsc_PLL
IC3161 NJM082BM-T1
R3186 1000/RE7
C3175 0.1/UFV
R3187 1000/RE7
C3176 0.1/UFV
R3188 1300/RE7
R3189 13K/RE7
R3190 470/RE7
C3177 0.1/UFV
C3182 0.1/UFV
R3193 6800/J3
L3163 100U/LC
C3178 18P/UV
C3180 0.1/UFV
C3179 0.1/UFV
C3181 0.1/UFV
IC3162 C0FBAF000042
CK1 OEN CEN AVDD AVSS VTP VREFP VCOM VREFN VBT VHALF AIN
D9 D8 D7 D6 D5 DVDD DVSS D4 D3 D2 D1 D0
C3183 0.1/UFV
C3184 0.1/UFV
C3185 0.1/UFV
C3186 0.1/UFV
R3194 PAT/J3
C3187 0.1/UFV
R3195 PAT/J3
IC3163 TVHT244FEL
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G 2G
SDEC, SDEC2
VID[0-7]
R3196 1000/J3
SDEC, SDEC2, 4fsc_PLL
+3VAD1
D3160 MA143-GTX
L3164 100U/LC
C3188 0.1/UFV
C3190 6V47/EHB
L3165 100U/LC
C3194 PAT/6V220/EHB
C3189 0.1/UFV
C3191 6V47/EHB
+5VD1
C3192 0.1/UFV
IC3163 TVHT244FEL
C3193 0.1/UFV
IC3164 C0JBAA000261 SN74AHC1G08DCKR
DIG_GEN
SIGDET3
R3197 0/J6
R3198 0/J6
R3199 0/J6
TG3160 EYF6CU
AGND
DGND1

PAT=PATTERN ONLY
Ref No.3160〜3199 Series.

COMPONENT NAME	F5:V_IN (1st_AD)	04/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (4/18)	
	SCM066	


+5VA6
POWER
L3200
100U/LC
C3200
6V47/EHB
C3201
0.1/UFV
C3213
0.1/UFV
AGND
LINE
DIG_GEN
+5VD1
POWER
R3205
0/J3
R3206
PAT/J3
R3207
PAT/J3
R3208
0/J3
R3209
PAT/J3
R3210
PAT/J3
R3211
0/J3
R3212
0/J3
C3203
0.1/UFV
DGND1
VID[0-7]
1st_AD, SDEC2
+3VAD1
1st_AD, 4fsc_PLL, SDEC2
C3202
0.1/UFV
R3201
PAT/J3
R3202
0/J3
R3200
100/J3
IC3200
C0JBAA000261
SN74AHC1G08DCKR
BVCO
4fsc_PLL, SYNC_SEP, SDEC2
R3203
0/J3
R3204
PAT/J3
IC3201
CXD2105AQ
VID[7]
VID[6]
VID[5]
VID[4]
VID[3]
VID[2]
VID[1]
VID[0]
OR00
IGRC
IYC8
IYC7
IYC6
IYC5
IYC4
IYC3
IYC2
IYC1
DVSS
OADC
IGNP
IGBE
IGPF
IGCK
ORZH
IGH1
IGY2
IGY1
IGC2
BASO
IGL1
IGL2
IGL3
IGAC
DVDD
BMY8
BMY7
BMY6
BMY5
BMY4
BMY3
BMY2
BMY1
DVSS
IGW5
IGW4
IGW3
IGW2
IGW1
AVDDY
OYIO
OYVG
IYVR
OYIR
AVSSY
OYVB
OCVB
AVSSC
OCIR
ICVR
OCVG
OCIO
AVDDC
ICOC
BPV
OPER
AVDDP
IGPE
IGPC
AVSSP
IGZV
OZVD
OZPS
IGZP
DVDD
BMC1
BMC2
BMC3
BMC4
BMC5
BMC6
BMC7
BMC8
DVSS
IGD0
IGC1
IGIH
IGRP
C3204
0.1/UFV
R3213
PAT/J3
R3214
0/J3
C3205
0.1/UFV
C3206
0.1/UFV
C3207
0.1/UFV
C3208
0.1/UFV
C3209
0.1/UFV
C3210
0.1/UFV
C3211
0.1/UFV
C3212
0.1/UFV
R3215
3300/J3
R3216
3300/J3
R3217
100/J3
R3218
56/J3
R3219
820/J3
R3220
390/J3
R3221
680/J3
R3222
820/J3
R3223
47/J3
R3224
47/J3
SDEC2, DECBUF
DEC_Y
DEC_C
KILL_H
DIG_GEN
1st_AD, SDEC2
ADCK
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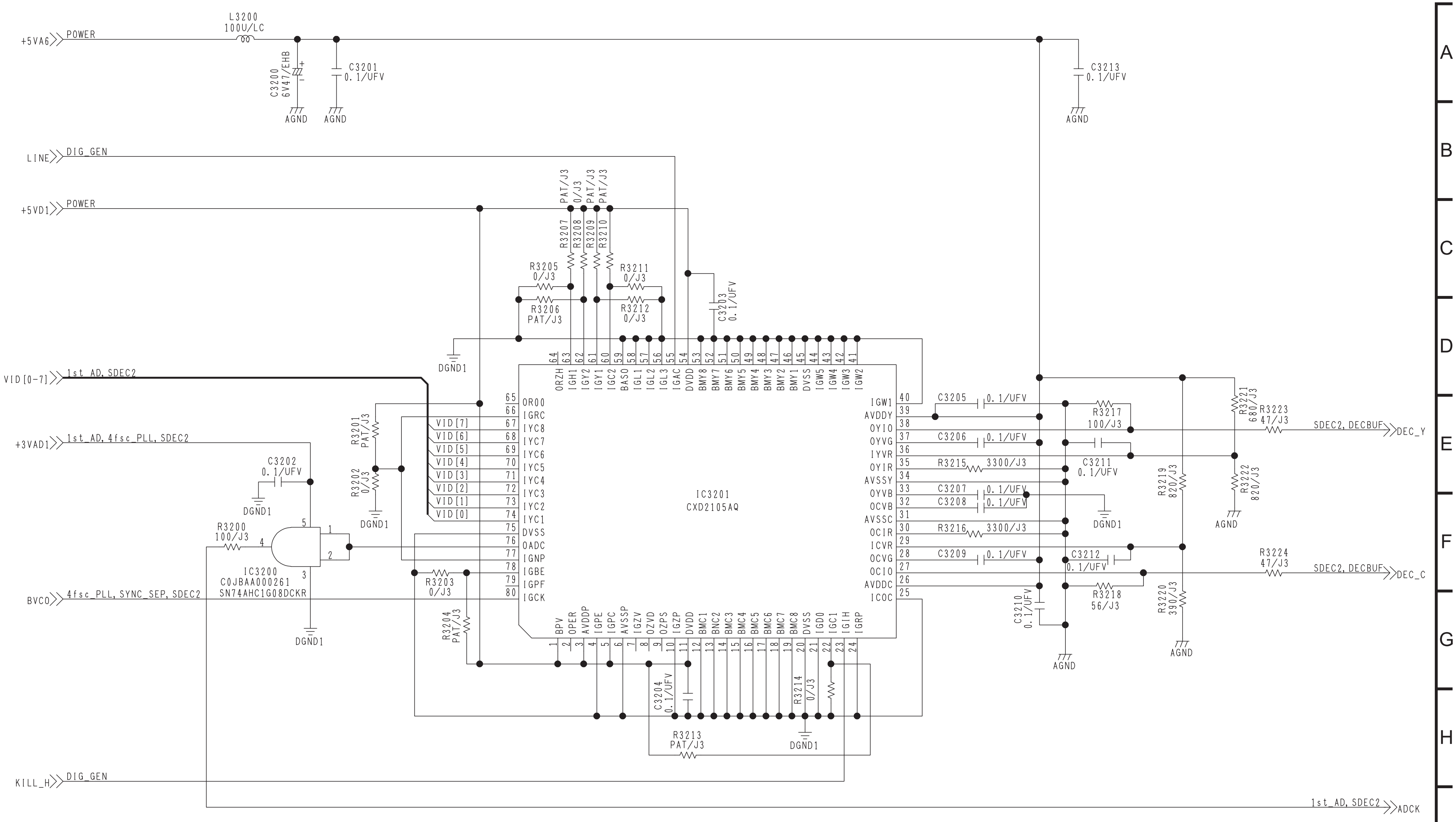
PAT=PATTERN ONLY

Ref No. 3200〜3249 Series.

COMPONENT NAME	F5:V_IN (SDEC)		05/18
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83553A		KR30087(5/18)	
		SCM067	


+5VA6
POWER
L3200
100U/LC
C3200
6V47/EHB
C3201
0.1/UFV
C3213
0.1/UFV
AGND
LINE
DIG_GEN
+5VD1
POWER
R3207
R3208
R3209
R3210
PAT/J3
0/J3
PAT/J3
PAT/J3
R3205
0/J3
R3206
PAT/J3
R3211
0/J3
R3212
0/J3
C3203
0.1/UFV
DGND1
VID[0-7]
1st_AD, SDEC2
+3VAD1
1st_AD, 4fsc_PLL, SDEC2
C3202
0.1/UFV
R3201
PAT/J3
R3202
0/J3
R3200
100/J3
IC3200
C0JBAA000261
SN74AHC1G08DCKR
BVCO
4fsc_PLL, SYNC_SEP, SDEC2
R3203
0/J3
R3204
PAT/J3
VID[7]
VID[6]
VID[5]
VID[4]
VID[3]
VID[2]
VID[1]
VID[0]
IC3201
CXD2105AQ
OR00
IGRC
IYC8
IYC7
IYC6
IYC5
IYC4
IYC3
IYC2
IYC1
DVSS
OADC
IGNP
IGBE
IGPF
IGCK
ORZH
IGH1
IGY2
IGY1
IGC2
BAS0
IGL1
IGL2
IGL3
IGAC
DVDD
BMY8
BMY7
BMY6
BMY5
BMY4
BMY3
BMY2
BMY1
DVSS
IGW5
IGW4
IGW3
IGW2
IGW1
AVDDY
OYIO
OYVG
IYVR
OYIR
AVSSY
OYVB
OCVB
AVSSC
OCIR
ICVR
OCVG
OCIO
AVDDC
ICOC
BPV
OPER
AVDDP
IGPE
IGPC
AVSSP
IGZV
OZVD
OZPS
IGZP
DVDD
BMC1
BMC2
BMC3
BMC4
BMC5
BMC6
BMC7
BMC8
DVSS
IGD0
IGC1
IGIH
IGRP
C3204
0.1/UFV
R3214
0/J3
R3213
PAT/J3
C3205
0.1/UFV
C3206
0.1/UFV
R3215
3300/J3
C3207
0.1/UFV
C3208
0.1/UFV
R3216
3300/J3
C3209
0.1/UFV
C3210
0.1/UFV
C3211
0.1/UFV
C3212
0.1/UFV
R3217
100/J3
R3218
56/J3
R3219
820/J3
R3220
390/J3
R3221
680/J3
R3222
820/J3
R3223
47/J3
R3224
47/J3
SDEC2, DECBUF
DEC_Y
DEC_C
KILL_H
DIG_GEN
1st_AD, SDEC2
ADCK
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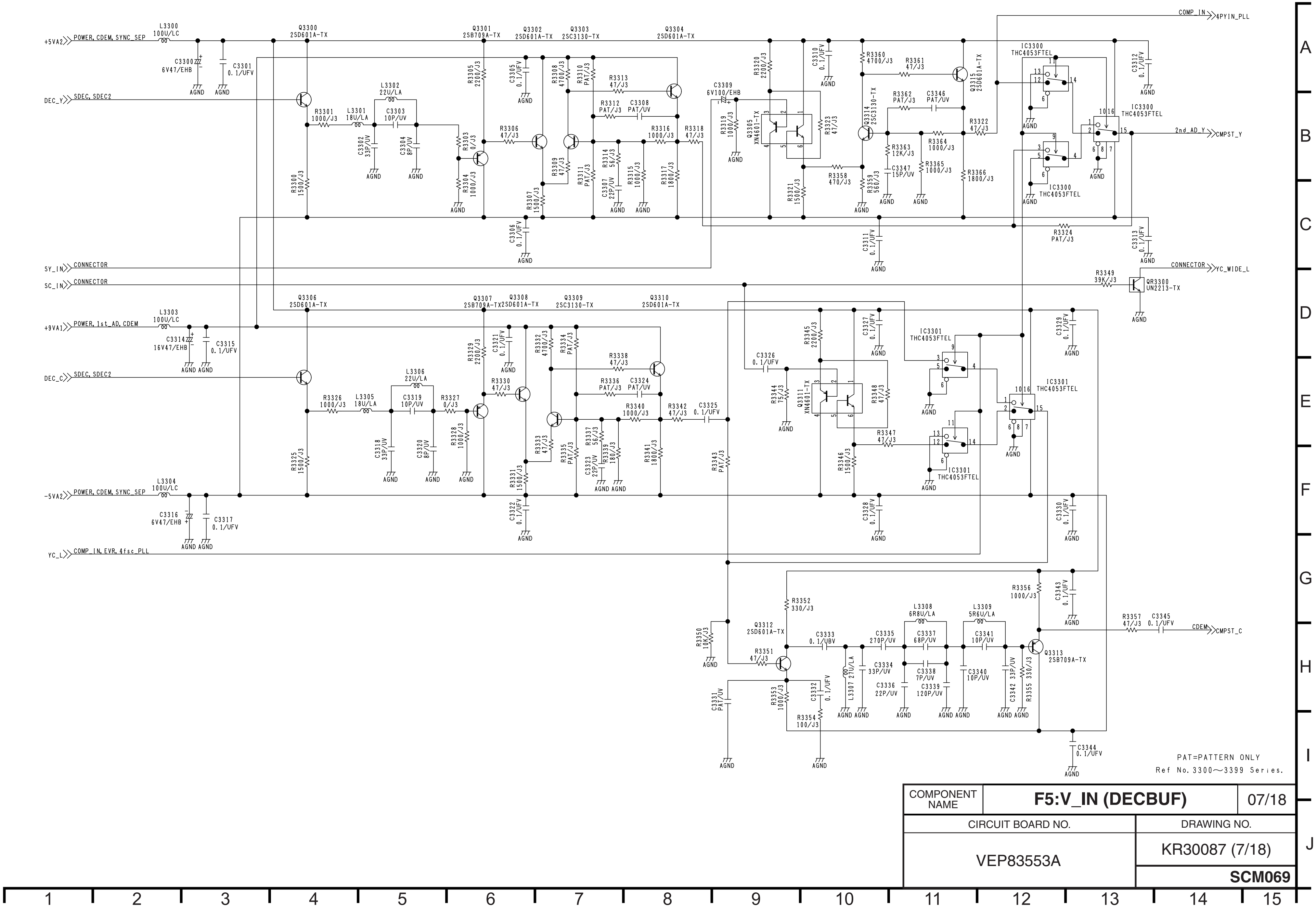
PAT=PATTERN ONLY

Ref No.3200～3249 Series.

COMPONENT NAME	F5:V_IN (SDEC2)		06/18
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83553A		KR30087 (6/18)	
		SCM068	


+5VA2
POWER, CDEM, SYNC_SEP
L3300 100U/LC
C3300 6V47/EHB
C3301 0.1/UFV
DEC_Y
SDEC, SDEC2
Q3300 2SD601A-TX
R3301 1000/J3
L3301 18U/LA
L3302 22U/LA
C3303 10P/UV
C3302 33P/UV
C3304 8P/UV
R3300 1500/J3
Q3301 2SB709A-TX
Q3302 2SD601A-TX
Q3303 2SC3130-TX
Q3304 2SD601A-TX
R3305 2200/J3
R3303 0/J3
R3304 1000/J3
C3305 0.1/UFV
R3306 47/J3
R3308 4700/J3
R3310 PAT/J3
R3313 47/J3
R3312 PAT/J3
C3308 PAT/UV
R3309 47/J3
R3307 1500/J3
R3311 PAT/J3
C3307 22P/UV
R3314 56/J3
R3315 1000/J3
R3316 1000/J3
R3317 1800/J3
R3318 47/J3
C3306 0.1/UFV
C3309 6V100/EHB
R3319 1000/J3
Q3305 XN4601-TX
R3320 2200/J3
C3310 0.1/UFV
R3323 47/J3
R3321 1500/J3
R3358 470/J3
R3360 4700/J3
R3361 47/J3
Q3315 2SD601A-TX
Q3314 2SC3130-TX
R3362 PAT/J3
C3346 PAT/UV
R3363 12K/J3
R3364 1000/J3
C3347 15P/UV
R3365 1000/J3
R3359 560/J3
R3366 1800/J3
R3322 47/J3
C3311 0.1/UFV
COMP_IN
4PYIN_PLL
IC3300 THC4053FTEL
C3312 0.1/UFV
2nd_AD_Y
CMPST_Y
R3324 PAT/J3
C3313 0.1/UFV
SY_IN
CONNECTOR
SC_IN
CONNECTOR
R3349 39K/J3
QR3300 UN2213-TX
YC_WIDE_L
Q3306 2SD601A-TX
Q3307 2SB709A-TX
Q3308 2SD601A-TX
Q3309 2SC3130-TX
Q3310 2SD601A-TX
+9VA1
POWER, 1st_AD, CDEM
L3303 100U/LC
C3314 16V47/EHB
C3315 0.1/UFV
DEC_C
SDEC, SDEC2
R3326 1000/J3
L3305 18U/LA
L3306 22U/LA
C3319 10P/UV
R3327 0/J3
C3318 33P/UV
C3320 8P/UV
R3328 1000/J3
R3325 1500/J3
R3329 2200/J3
C3321 0.1/UFV
R3330 47/J3
R3332 4700/J3
R3334 PAT/J3
R3338 47/J3
R3336 PAT/J3
C3324 PAT/UV
R3340 1000/J3
R3342 47/J3
C3325 0.1/UFV
R3333 47/J3
R3331 1500/J3
R3335 PAT/J3
C3323 22P/UV
R3337 56/J3
R3339 180/J3
R3341 1800/J3
R3343 PAT/J3
C3322 0.1/UFV
C3326 0.1/UFV
R3344 75/J3
Q3311 XN4601-TX
R3345 2200/J3
C3327 0.1/UFV
R3348 47/J3
R3347 47/J3
R3346 1500/J3
C3328 0.1/UFV
IC3301 THC4053FTEL
C3329 0.1/UFV
C3330 0.1/UFV
-5VA2
POWER, CDEM, SYNC_SEP
L3304 100U/LC
C3316 6V47/EHB
C3317 0.1/UFV
YC_L
COMP_IN, EVR, 4fsc_PLL
R3352 330/J3
Q3312 2SD601A-TX
R3350 10K/J3
R3351 47/J3
C3333 0.1/UBV
L3307 27U/LA
C3334 33P/UV
C3335 270P/UV
L3308 6R8U/LA
C3337 68P/UV
C3338 7P/UV
C3336 22P/UV
C3339 120P/UV
L3309 5R6U/LA
C3341 10P/UV
C3340 10P/UV
C3342 33P/UV
R3355 330/J3
R3356 1000/J3
C3343 0.1/UFV
Q3313 2SB709A-TX
R3357 47/J3
C3345 0.1/UFV
CDEM
CMPST_C
C3331 PAT/UV
R3353 1000/J3
C3332 0.1/UFV
R3354 100/J3
C3344 0.1/UFV
AGND
PAT=PATTERN ONLY
Ref No.3300～3399 Series.
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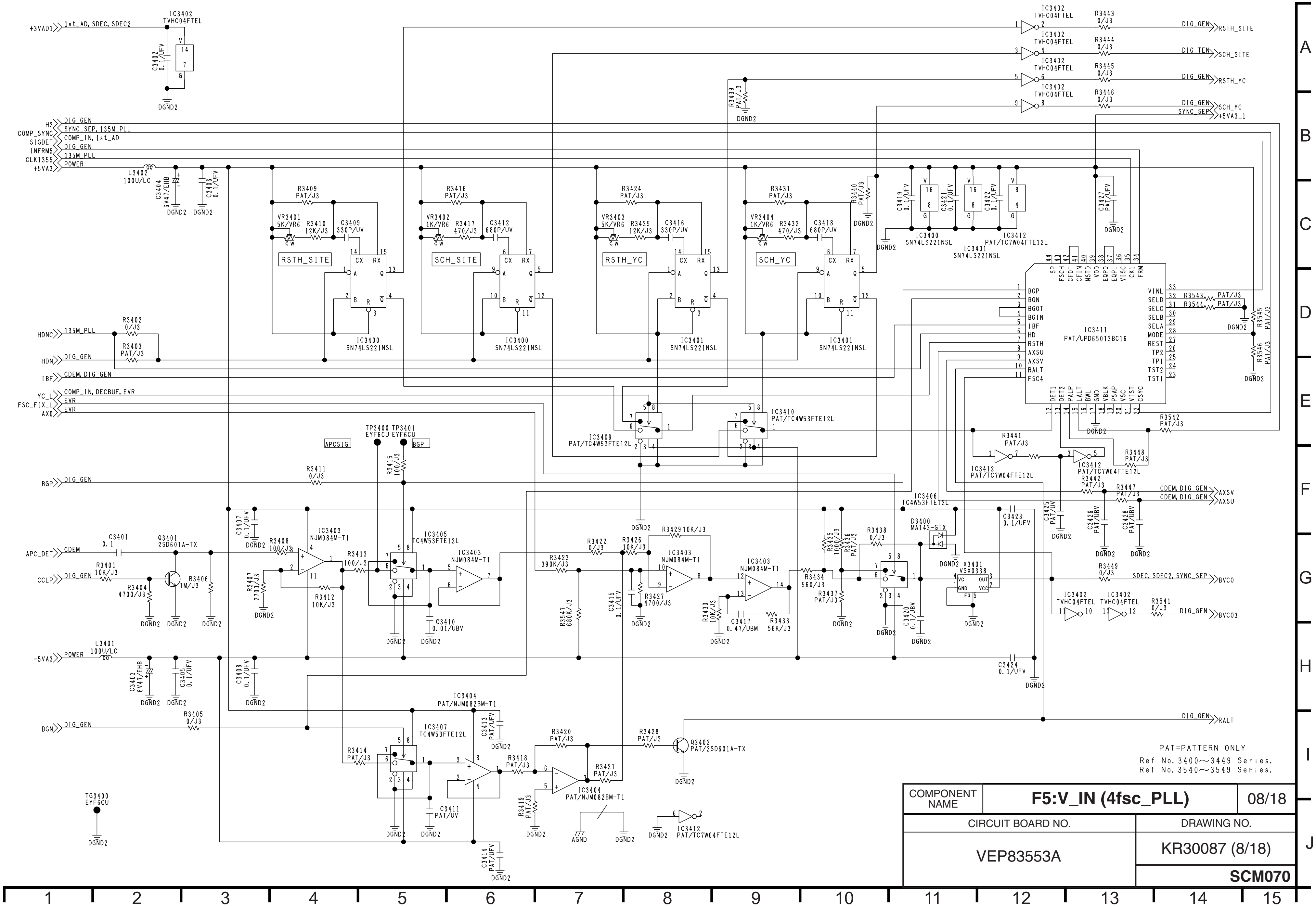
COMPONENT NAME	F5:V_IN (DECBUF)	07/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (7/18)	
	SCM069	


+3VAD1
1st_AD, SDEC, SDEC2
IC3402
TVHC04FTEL
C3402
0.1/UFV
DGND2
H2
COMP_SYNC
SIGDET
INFRM5
CLK1355
+5VA3
DIG_GEN
SYNC_SEP, 135M_PLL
COMP_IN, 1st_AD
135M_PLL
POWER
L3402
100U/LC
C3404
6V47/EHB
C3406
0.1/UFV
R3409
R3416
R3424
R3431
PAT/J3
VR3401
5K/VR6
VR3402
1K/VR6
VR3403
5K/VR6
VR3404
1K/VR6
R3410
12K/J3
R3417
470/J3
R3425
12K/J3
R3432
470/J3
C3409
330P/UV
C3412
680P/UV
C3416
330P/UV
C3418
680P/UV
RSTH_SITE
SCH_SITE
RSTH_YC
SCH_YC
IC3400
IC3401
SN74LS221NSL
R3439
R3440
C3419
C3421
C3422
0.1/UFV
IC3412
PAT/TC7W04FTE12L
C3427
PAT/UFV
R3443
R3444
R3445
R3446
0/J3
DIG_GEN
DIG_TEN
RSTH_SITE
SCH_SITE
RSTH_YC
SCH_YC
SYNC_SEP
+5VA3_1
IC3411
PAT/UPD65013BC16
BGP
BGN
BGOT
BGIN
IBF
HD
RSTH
AXSU
AXSV
RALT
FSC4
SP
FSCH
CFOT
CFIN
NSTD
VDD
EQPO
EQPI
VISC
CKI
FRM
VINL
SELD
SELC
SELB
SELA
MODE
REST
TP2
TP1
TST2
TST1
DET1
DET2
PALP
LALT
BWL
GND
VBLK
PSAP
VSC
VIST
CSYC
R3543
R3544
R3545
R3546
R3542
HDNC
HDN
IBF
YC_L
FSC_FIX_L
AXO
R3402
R3403
CDEM, DIG_GEN
COMP_IN, DECBUF, EVR
EVR
IC3409
PAT/TC4W53FTE12L
IC3410
PAT/TC4W53FTE12L
TP3400
TP3401
EYF6CU
APCSIG
BGP
R3415
100/J3
R3411
0/J3
R3441
R3448
R3442
R3447
CDEM, DIG_GEN
AXSV
AXSU
IC3406
TC4W53FTE12L
D3400
MA143-GTX
X3401
VSX0338
C3423
0.1/UFV
C3425
PAT/UV
C3426
PAT/UBV
C3428
PAT/UBV
APC_DET
CDEM
C3401
0.1
Q3401
2SD601A-TX
R3401
10K/J3
CCLP
R3404
4700/J3
R3406
1M/J3
C3407
0.1/UFV
R3408
100/J3
R3407
2700/J3
IC3403
NJM084M-T1
R3412
10K/J3
R3413
100/J3
IC3405
TC4W53FTE12L
C3410
0.01/UBV
R3423
390K/J3
R3422
0/J3
R3426
10K/J3
R3429
10K/J3
R3427
4700/J3
C3415
0.1/UFV
R3547
680K/J3
R3430
10K/J3
C3417
0.47/UBM
R3433
56K/J3
R3434
560/J3
R3435
100/J3
R3436
PAT/J3
R3437
PAT/J3
R3438
0/J3
C3420
0.1/UBV
R3449
0/J3
SDEC, SDEC2, SYNC_SEP
BVCO
R3541
0/J3
BVCO3
TVHC04FTEL
-5VA3
L3401
100U/LC
C3403
6V47/EHB
C3405
0.1/UFV
C3408
0.1/UFV
C3424
0.1/UFV
BGN
R3405
0/J3
IC3404
PAT/NJM082BM-T1
C3413
PAT/UFV
IC3407
TC4W53FTE12L
R3414
PAT/J3
C3411
PAT/UV
R3418
PAT/J3
R3420
PAT/J3
R3421
PAT/J3
R3419
PAT/J3
R3428
PAT/J3
Q3402
PAT/2SD601A-TX
RALT
C3414
PAT/UFV
TG3400
EYF6CU
AGND
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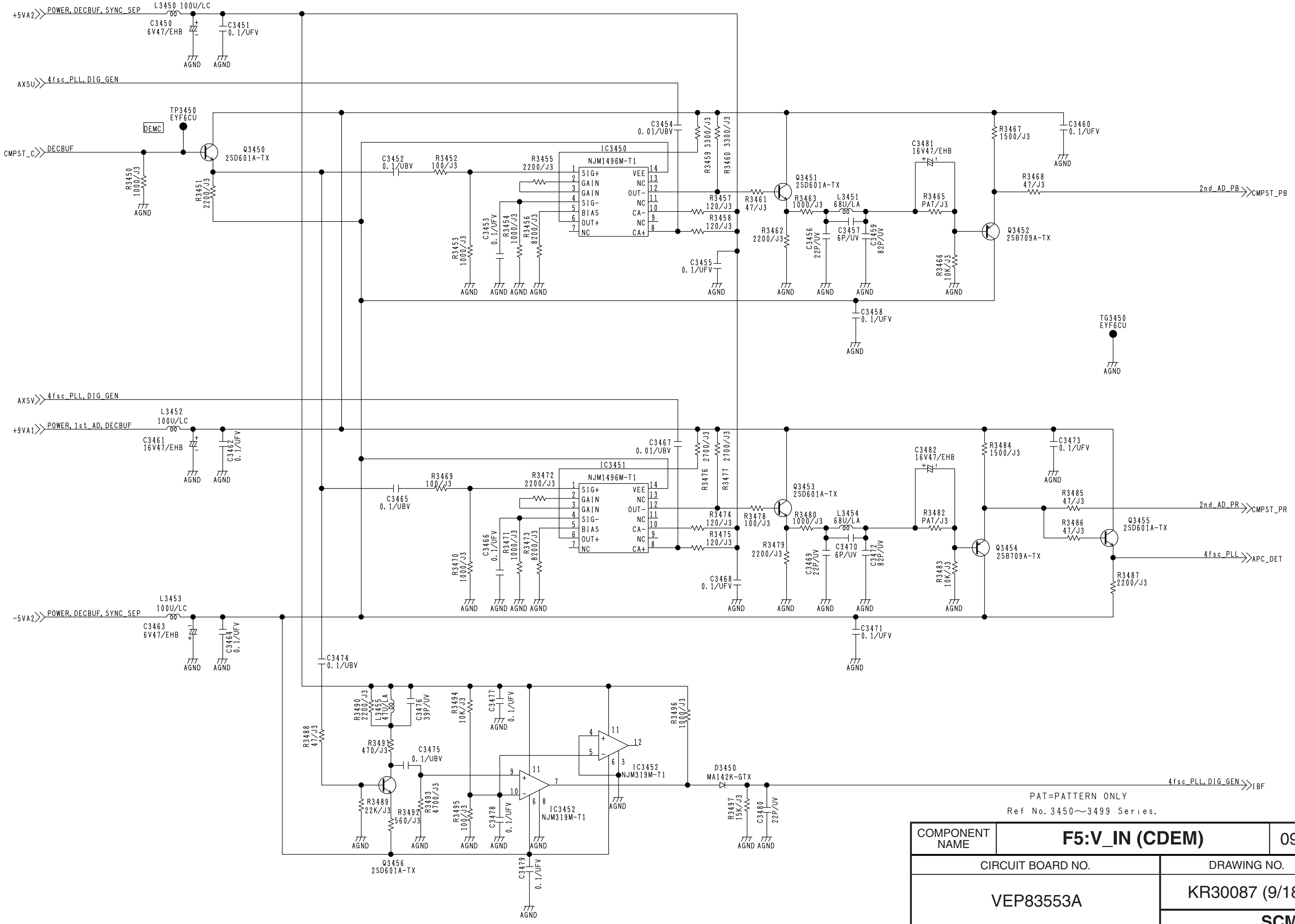
PAT=PATTERN ONLY
Ref No.3400～3449 Series.
Ref No.3540～3549 Series.

COMPONENT NAME	F5:V_IN (4fsc_PLL)	08/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (8/18)	
	SCM070	


+5VA2
POWER, DECBUF, SYNC_SEP
L3450 100U/LC
C3450 6V47/EHB
C3451 0.1/UFV
AGND
AXSU
4fsc_PLL, DIG_GEN
TP3450 EYF6CU
DEMC
CMPST_C
DECBUF
Q3450 2SD601A-TX
R3450 1000/J3
R3451 2200/J3
C3452 0.1/UBV
R3452 100/J3
R3453 1000/J3
C3453 0.1/UFV
R3454 1000/J3
R3455 2200/J3
R3456 8200/J3
IC3450
NJM1496M-T1
SIG+
GAIN
SIG-
BIAS
OUT+
NC
VEE
OUT-
CA-
CA+
C3454 0.01/UBV
R3459 3300/J3
R3460 3300/J3
R3457 120/J3
R3458 120/J3
C3455 0.1/UFV
R3461 47/J3
Q3451 2SD601A-TX
R3462 2200/J3
R3463 1000/J3
L3451 68U/LA
C3456 22P/UV
C3457 6P/UV
C3459 82P/UV
C3481 16V47/EHB
R3465 PAT/J3
R3466 10K/J3
Q3452 2SB709A-TX
R3467 1500/J3
C3460 0.1/UFV
R3468 47/J3
2nd_AD_PB
CMPST_PB
C3458 0.1/UFV
TG3450 EYF6CU
AXSV
+9VA1
POWER, 1st_AD, DECBUF
L3452 100U/LC
C3461 16V47/EHB
C3462 0.1/UFV
C3465 0.1/UBV
R3469 100/J3
R3470 1000/J3
C3466 0.1/UFV
R3471 1000/J3
R3472 2200/J3
R3473 8200/J3
IC3451
NJM1496M-T1
C3467 0.01/UBV
R3476 2700/J3
R3477 2700/J3
R3474 120/J3
R3475 120/J3
C3468 0.1/UFV
R3478 100/J3
Q3453 2SD601A-TX
R3479 2200/J3
R3480 1000/J3
L3454 68U/LA
C3469 22P/UV
C3470 6P/UV
C3472 82P/UV
C3482 16V47/EHB
R3482 PAT/J3
R3483 10K/J3
Q3454 2SB709A-TX
R3484 1500/J3
C3473 0.1/UFV
R3485 47/J3
R3486 47/J3
Q3455 2SD601A-TX
2nd_AD_PR
CMPST_PR
4fsc_PLL
APC_DET
R3487 2200/J3
-5VA2
L3453 100U/LC
C3463 6V47/EHB
C3464 0.1/UFV
C3471 0.1/UFV
C3474 0.1/UBV
R3488 47/J3
R3490 2200/J3
L3455 470U/LA
C3476 39P/UV
R3491 470/J3
C3475 0.1/UBV
R3489 22K/J3
R3492 560/J3
R3493 4700/J3
Q3456 2SD601A-TX
R3494 10K/J3
R3495 100/J3
C3477 0.1/UFV
C3478 0.1/UFV
C3479 0.1/UFV
IC3452 NJM319M-T1
R3496 1000/J3
D3450 MA142K-GTX
R3497 15K/J3
C3480 22P/UV
4fsc_PLL, DIG_GEN
IBF
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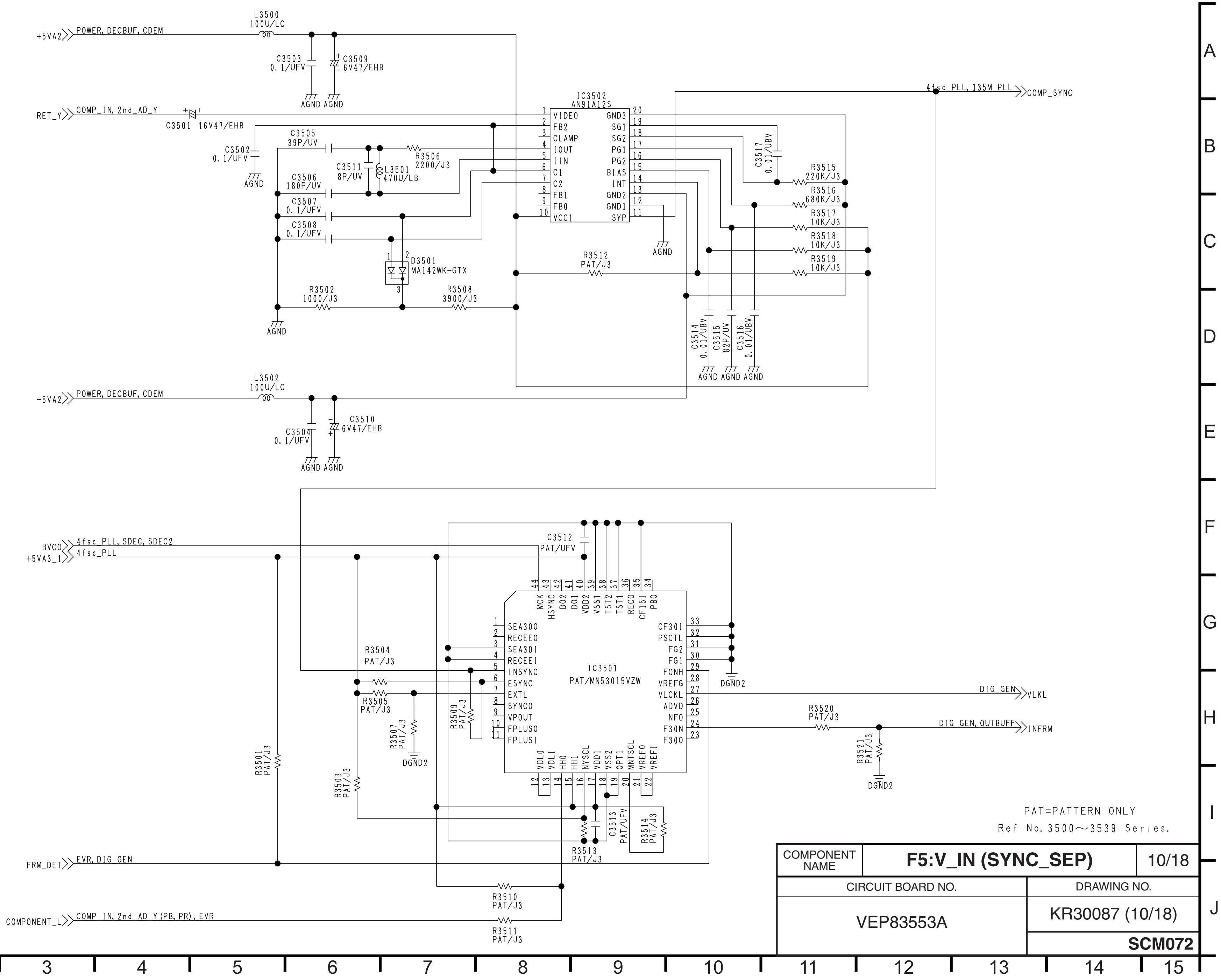
PAT=PATTERN ONLY

Ref No. 3450～3499 Series.

COMPONENT NAME	F5:V_IN (CDEM)	09/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (9/18)	
	SCM071	


+5VA2
POWER, DECBUF, CDEM
L3500
100U/LC
C3503
0.1/UFV
C3509
6V47/EHB
AGND
RET_Y
COMP_IN, 2nd_AD_Y
C3501 16V47/EHB
C3502
0.1/UFV
C3505
39P/UV
C3511
8P/UV
L3501
470U/LB
R3506
2200/J3
C3506
180P/UV
C3507
0.1/UFV
C3508
0.1/UFV
D3501
MA142WK-GTX
R3502
1000/J3
R3508
3900/J3
IC3502
AN91A12S
VIDEO
FB2
CLAMP
IOUT
IIN
C1
C2
FB1
FB0
VCC1
GND3
SG1
SG2
PG1
PG2
BIAS
INT
GND2
GND1
SYP
R3512
PAT/J3
C3517
0.01/UBV
R3515
220K/J3
R3516
680K/J3
R3517
10K/J3
R3518
10K/J3
R3519
10K/J3
C3514
0.01/UBV
C3515
82P/UV
C3516
0.01/UBV
4fsc_PLL, 135M_PLL
COMP_SYNC
-5VA2
POWER, DECBUF, CDEM
L3502
100U/LC
C3504
0.1/UFV
C3510
6V47/EHB
BVCO
4fsc_PLL, SDEC, SDEC2
+5VA3_1
4fsc_PLL
C3512
PAT/UFV
IC3501
PAT/MN53015VZW
SEA300
RECEE0
SEA30I
RECEEI
INSYNC
ESYNC
EXTL
SYNCO
VPOUT
FPLUSO
FPLUSI
MCK
HSYNC
DO2
DO1
VDD2
VSS1
TST2
TST1
RECO
CF15I
PBO
CF30I
PSCTL
FG2
FG1
FONH
VREFG
VLCKL
ADVD
NFO
F30N
F300
VDLO
VDLI
HHO
HH1
NYSCL
VDD1
VSS2
OPT1
MNTSCL
VREFO
VREFI
R3504
PAT/J3
R3505
PAT/J3
R3507
PAT/J3
R3509
PAT/J3
R3501
PAT/J3
R3503
PAT/J3
C3513
PAT/UFV
R3513
PAT/J3
R3514
PAT/J3
DGND2
DIG_GEN
VLKL
R3520
PAT/J3
R3521
PAT/J3
DIG_GEN, OUTBUFF
INFRM
FRM_DET
EVR, DIG_GEN
R3510
PAT/J3
COMPONENT_L
COMP_IN, 2nd_AD_Y(PB, PR), EVR
R3511
PAT/J3
A
B
C
D
E
F
G
H
I
J
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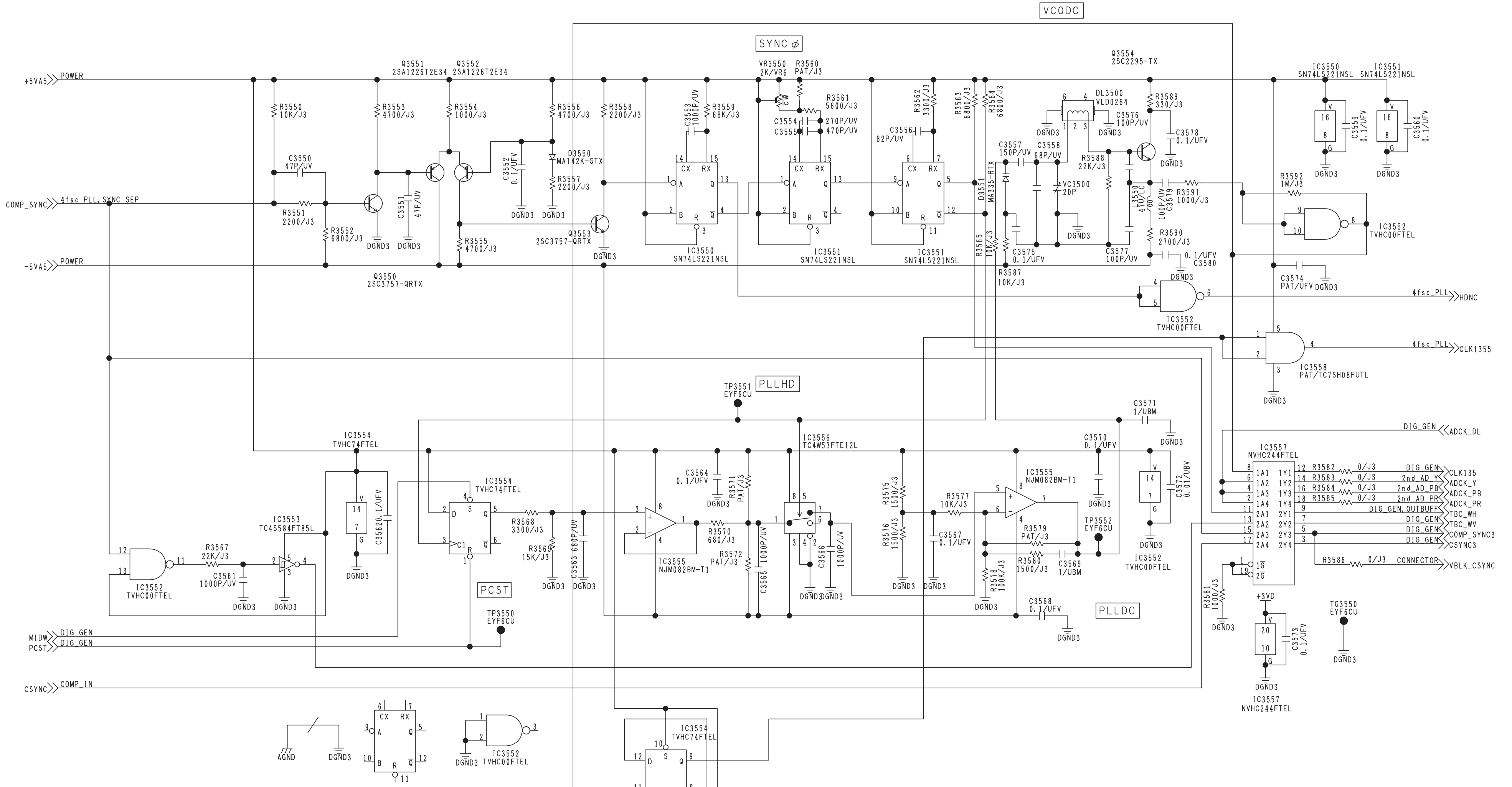
PAT=PATTERN ONLY
Ref No. 3500～3539 Series.

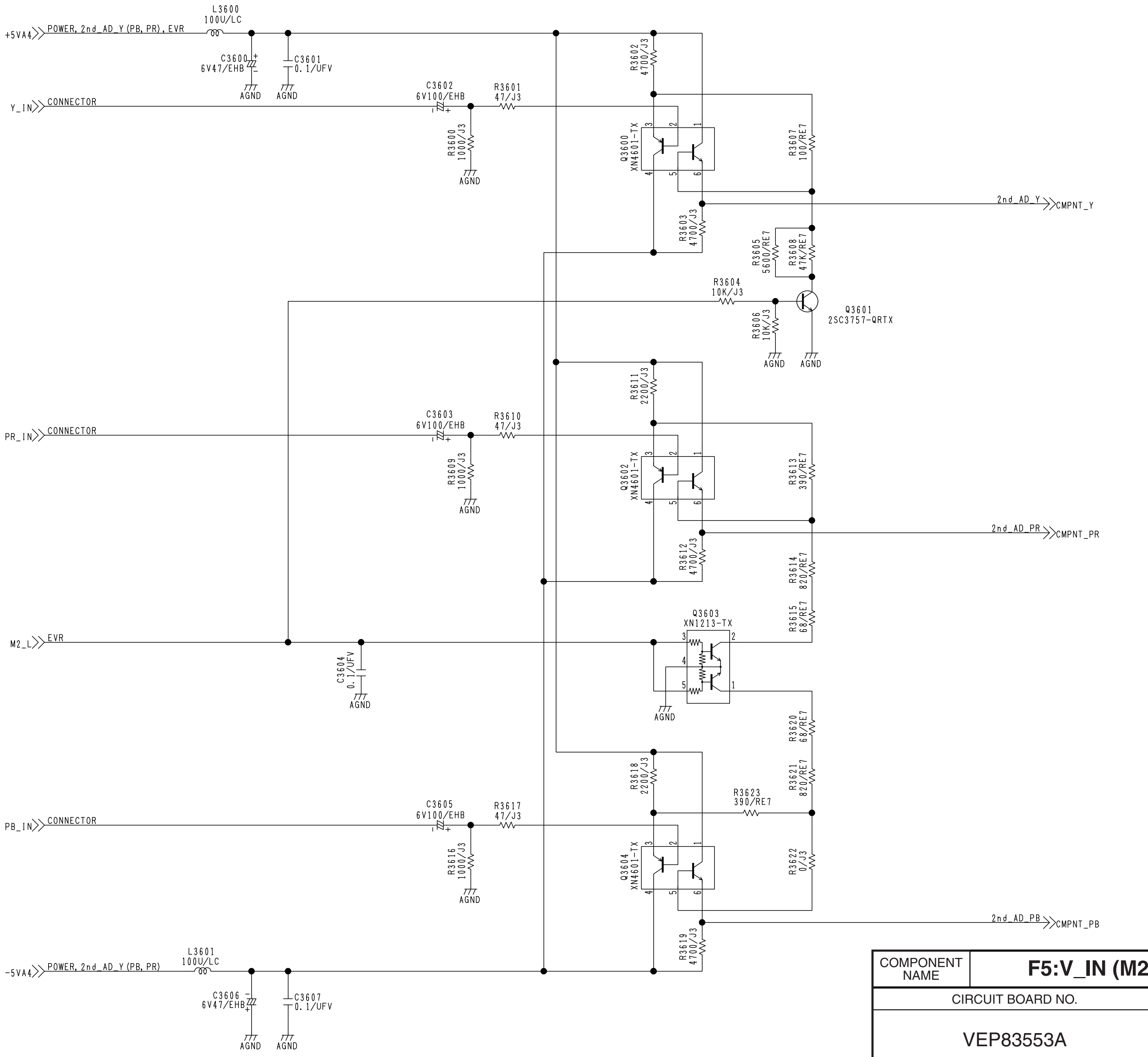
COMPONENT NAME	F5:V_IN (SYNC_SEP)	10/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (10/18)	
	SCM072	


VCODC
SYNC ϕ
PLLHD
PCST
PLLDC
+5VA5 POWER
COMP_SYNC 4fsc_PLL,SYNC_SEP
-5VA5 POWER
MIDW DIG_GEN
PCST DIG_GEN
CSYNC COMP_IN
Q3551 2SA1226T2E34
Q3552 2SA1226T2E34
Q3550 2SC3757-QRTX
Q3553 2SC3757-QRTX
Q3554 2SC2295-TX
D3550 MA142K-GTX
D3551 MA335-RTX
DL3500 VLD0264
VR3550 2K/VR6
VC3500 20P
R3550 10K/J3
R3551 2200/J3
R3552 6800/J3
R3553 4700/J3
R3554 1000/J3
R3555 4700/J3
R3556 4700/J3
R3557 2200/J3
R3558 2200/J3
R3559 68K/J3
R3560 PAT/J3
R3561 5600/J3
R3562 3300/J3
R3563 6800/J3
R3564 6800/J3
R3565 10K/J3
R3567 22K/J3
R3568 3300/J3
R3569 15K/J3
R3570 680/J3
R3571 PAT/J3
R3572 PAT/J3
R3575 1500/J3
R3576 1500/J3
R3577 10K/J3
R3578 100K/J3
R3579 PAT/J3
R3580 1500/J3
R3581 1000/J3
R3582 0/J3
R3583 0/J3
R3584 0/J3
R3585 0/J3
R3586 0/J3
R3587 10K/J3
R3588 22K/J3
R3589 330/J3
R3590 2700/J3
R3591 1000/J3
R3592 1M/J3
C3550 47P/UV
C3551 47P/UV
C3552 0.1/UFV
C3553 1000P/UV
C3554 270P/UV
C3555 470P/UV
C3556 82P/UV
C3557 150P/UV
C3558 68P/UV
C3559 0.1/UFV
C3560 0.1/UFV
C3561 1000P/UV
C3562 0.1/UFV
C3563 680P/UV
C3564 0.1/UFV
C3565 1000P/UV
C3566 1000P/UV
C3567 0.1/UFV
C3568 0.1/UFV
C3569 1/UBM
C3570 0.1/UFV
C3571 1/UBM
C3572 0.01/UBV
C3573 0.1/UFV
C3574 PAT/UFV
C3575 0.1/UFV
C3576 100P/UV
C3577 100P/UV
C3578 0.1/UFV
C3579 100P/UV
C3580 0.1/UFV
IC3550 SN74LS221NSL
IC3551 SN74LS221NSL
IC3552 TVHC00FTEL
IC3553 TC4S584FT85L
IC3554 TVHC74FTEL
IC3555 NJM082BM-T1
IC3556 TC4W53FTE12L
IC3557 NVHC244FTEL
IC3558 PAT/TC7SH08FUTL
TP3550 EYF6CU
TP3551 EYF6CU
TP3552 EYF6CU
TG3550 EYF6CU
DGND3
AGND
+3VD
4fsc_PLL HDNC
4fsc_PLL CLK1355
DIG_GEN ADCK_DL
DIG_GEN CLK135
2nd_AD_Y ADCK_Y
2nd_AD_PB ADCK_PB
2nd_AD_PR ADCK_PR
DIG_GEN,OUTBUFF TBC_WH
DIG_GEN TBC_WV
DIG_GEN COMP_SYNC3
DIG_GEN CSYNC3
CONNECTOR VBLK_CSYNC
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY

Ref No.3550～3599 Series.

COMPONENT NAME	F5:V_IN (135M_PLL)	11/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (11/18)	
	SCM073	


+5VA4
POWER, 2nd_AD_Y(PB,PR),EVR
L3600
100U/LC
C3600
6V47/EHB
C3601
0.1/UFV
AGND
AGND
Y_IN
CONNECTOR
C3602
6V100/EHB
R3601
47/J3
R3600
1000/J3
AGND
R3602
4700/J3
Q3600
XN4601-TX
R3607
100/RE7
2nd_AD_Y
CMPNT_Y
R3603
4700/J3
R3605
5600/RE7
R3608
47K/RE7
R3604
10K/J3
Q3601
2SC3757-QRTX
R3606
10K/J3
AGND
AGND
R3611
2200/J3
PR_IN
CONNECTOR
C3603
6V100/EHB
R3610
47/J3
R3609
1000/J3
AGND
Q3602
XN4601-TX
R3613
390/RE7
2nd_AD_PR
CMPNT_PR
R3612
4700/J3
R3614
820/RE7
R3615
68/RE7
Q3603
XN1213-TX
M2_L
EVR
C3604
0.1/UFV
AGND
AGND
R3620
68/RE7
R3618
2200/J3
R3621
820/RE7
R3623
390/RE7
PB_IN
CONNECTOR
C3605
6V100/EHB
R3617
47/J3
R3616
1000/J3
AGND
Q3604
XN4601-TX
R3622
0/J3
2nd_AD_PB
CMPNT_PB
R3619
4700/J3
-5VA4
POWER, 2nd_AD_Y(PB,PR)
L3601
100U/LC
C3606
6V47/EHB
C3607
0.1/UFV
AGND
AGND
A
B
C
D
E
F
G
H
I
J
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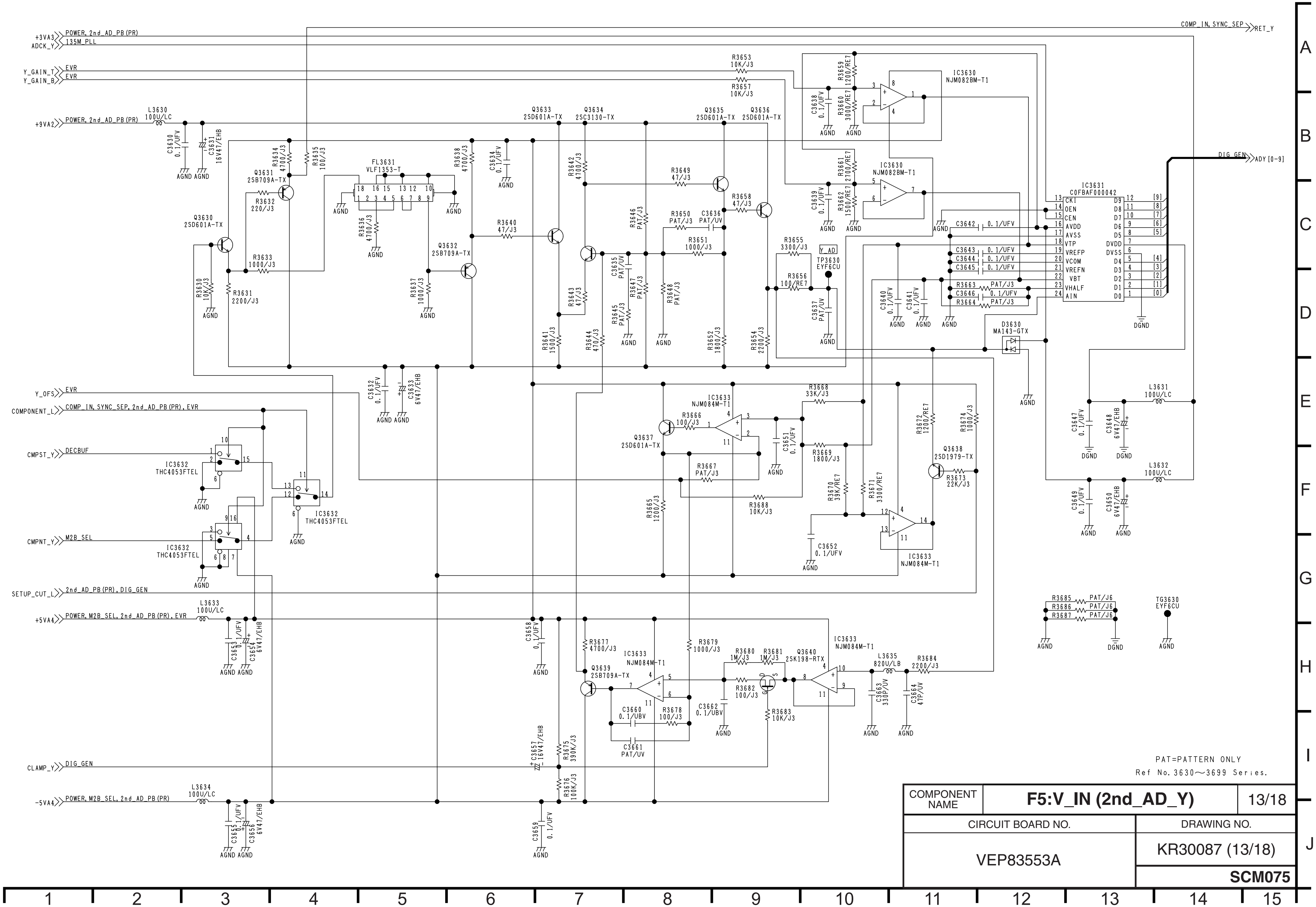
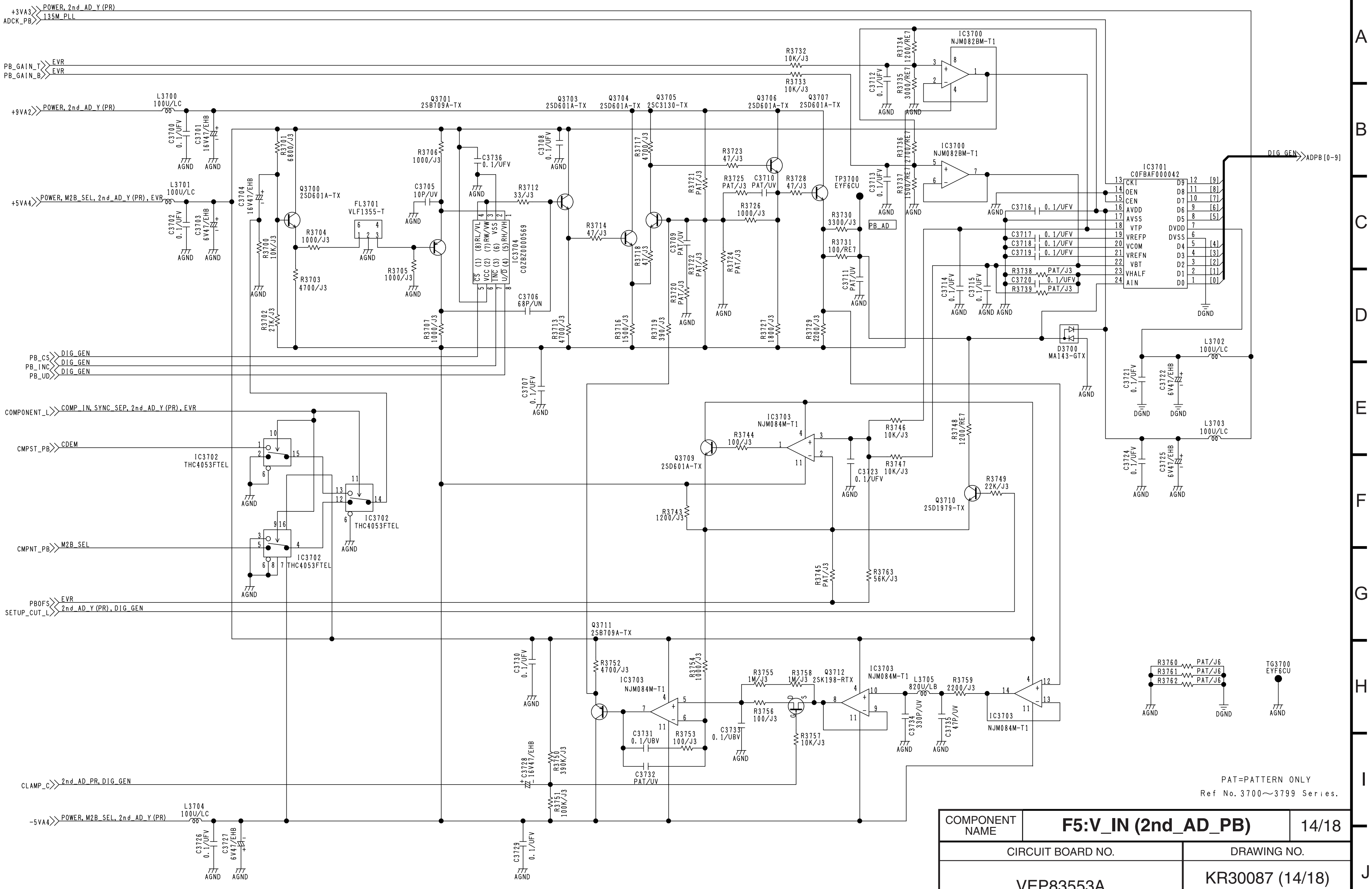
PAT=PATTERN ONLY
Ref No. 3600～3629 Series.

COMPONENT NAME	F5:V_IN (M2B_SEL)	12/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (12/18)	
	SCM074	


+3VA3
ADCK_Y
POWER, 2nd_AD_PB(PR)
135M_PLL
COMP_IN, SYNC_SEP
RET_Y
Y_GAIN_T
Y_GAIN_B
EVR
EVR
R3653 10K/J3
R3657 10K/J3
R3659 1200/RE7
R3660 3000/RE7
C3638 0.1/UFV
IC3630 NJM082BM-T1
+9VA2
L3630 100U/LC
POWER, 2nd_AD_PB(PR)
C3630 0.1/UFV
C3631 16V47/EHB
Q3633 2SD601A-TX
Q3634 2SC3130-TX
Q3635 2SD601A-TX
Q3636 2SD601A-TX
R3634 4700/J3
R3635 100/J3
Q3631 2SB709A-TX
R3632 220/J3
FL3631 VLF1353-T
R3636 4700/J3
R3638 4700/J3
C3634 0.1/UFV
R3642 4700/J3
R3649 47/J3
R3658 47/J3
R3661 2700/RE7
R3662 1500/RE7
C3639 0.1/UFV
IC3630 NJM082BM-T1
DIG_GEN
ADY[0-9]
IC3631 C0FBAF000042
CKI OEN CEN AVDD AVSS VTP VREFP VCOM VREFN VBT VHALF AIN
D9 D8 D7 D6 D5 DVDD DVSS D4 D3 D2 D1 D0
C3642 0.1/UFV
C3643 0.1/UFV
C3644 0.1/UFV
C3645 0.1/UFV
R3663 PAT/J3
C3646 0.1/UFV
R3664 PAT/J3
Q3630 2SD601A-TX
R3633 1000/J3
R3630 10K/J3
R3631 2200/J3
R3640 47/J3
Q3632 2SB709A-TX
R3637 1000/J3
R3646 PAT/J3
R3650 PAT/J3
C3636 PAT/UV
R3651 1000/J3
R3655 3300/J3
Y_AD
TP3630 EYF6CU
R3656 100/RE7
C3637 PAT/UV
C3640 0.1/UFV
C3641 0.1/UFV
C3635 PAT/UV
R3647 PAT/J3
R3648 PAT/J3
R3643 47/J3
R3645 PAT/J3
R3641 1500/J3
R3644 470/J3
R3652 1800/J3
R3654 2200/J3
D3630 MA143-GTX
C3632 0.1/UFV
C3633 6V47/EHB
Y_OFS
COMPONENT_L
COMP_IN, SYNC_SEP, 2nd_AD_PB(PR), EVR
CMPST_Y
DECBUF
IC3632 THC4053FTEL
CMPNT_Y
M2B_SEL
R3668 33K/J3
IC3633 NJM084M-T1
R3666 100/J3
Q3637 2SD601A-TX
C3651 0.1/UFV
R3667 PAT/J3
R3669 1800/J3
R3672 1200/RE7
R3674 1000/J3
Q3638 2SD1979-TX
R3673 22K/J3
R3665 1200/J3
R3688 10K/J3
R3670 39K/RE7
R3671 3300/RE7
C3652 0.1/UFV
L3631 100U/LC
C3647 0.1/UFV
C3648 6V47/EHB
L3632 100U/LC
C3649 0.1/UFV
C3650 6V47/EHB
SETUP_CUT_L
2nd_AD_PB(PR), DIG_GEN
+5VA4
POWER, M2B_SEL, 2nd_AD_PB(PR), EVR
L3633 100U/LC
C3653 0.1/UFV
C3654 6V47/EHB
C3658 0.1/UFV
R3677 4700/J3
Q3639 2SB709A-TX
R3679 1000/J3
R3680 1M/J3
R3681 1M/J3
Q3640 2SK198-RTX
L3635 820U/LB
R3684 2200/J3
R3682 100/J3
C3660 0.1/UBV
R3678 100/J3
C3661 PAT/UV
C3662 0.1/UBV
R3683 10K/J3
C3663 330P/UV
C3664 47P/UV
R3685 PAT/J6
R3686 PAT/J6
R3687 PAT/J6
TG3630 EYF6CU
CLAMP_Y
DIG_GEN
C3657 16V47/EHB
R3675 390K/J3
R3676 100K/J3
-5VA4
POWER, M2B_SEL, 2nd_AD_PB(PR)
L3634 100U/LC
C3655 0.1/UFV
C3656 6V47/EHB
C3659 0.1/UFV
AGND
DGND
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY
Ref No. 3630～3699 Series.

COMPONENT NAME	F5:V_IN (2nd_AD_Y)	13/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (13/18)	
	SCM075	


+3VA3
POWER, 2nd_AD_Y (PR)
ADCK_PB
135M_PLL
PB_GAIN_T
EVR
PB_GAIN_B
EVR
+9VA2
POWER, 2nd_AD_Y (PR)
L3700
100U/LC
C3700
0.1/UFV
C3701
16V47/EHB
+5VA4
POWER, M2B_SEL, 2nd_AD_Y (PR), EVR
L3701
100U/LC
C3702
0.1/UFV
C3703
6V47/EHB
C3704
16V47/EHB
R3701
6800/J3
R3700
10K/J3
Q3700
2SD601A-TX
R3704
1000/J3
R3703
4700/J3
R3702
27K/J3
FL3701
VLF1355-T
Q3701
2SB709A-TX
R3706
1000/J3
C3705
10P/UV
R3705
1000/J3
R3707
1000/J3
C3736
0.1/UFV
IC3704
C0ZBZ0000569
R3712
33/J3
C3706
68P/UN
C3708
0.1/UFV
Q3703
2SD601A-TX
R3713
4700/J3
C3707
0.1/UFV
Q3704
2SD601A-TX
R3714
47/J3
R3716
1500/J3
R3717
4700/J3
R3718
47/J3
Q3705
2SC3130-TX
R3719
390/J3
C3709
PAT/UV
R3720
PAT/J3
R3721
PAT/J3
R3722
PAT/J3
R3723
47/J3
R3725
PAT/J3
C3710
PAT/UV
R3726
1000/J3
R3724
PAT/J3
Q3706
2SD601A-TX
R3727
1800/J3
R3728
47/J3
Q3707
2SD601A-TX
R3729
2200/J3
TP3700
EYF6CU
R3730
3300/J3
R3731
100/RE7
C3711
PAT/UV
PB_AD
R3732
10K/J3
R3733
10K/J3
C3712
0.1/UFV
R3734
1200/RE7
R3735
3000/RE7
IC3700
NJM082BM-T1
R3736
2700/RE7
R3737
1500/RE7
C3713
0.1/UFV
IC3700
NJM082BM-T1
IC3701
C0FBAF000042
CKI
OEN
CEN
AVDD
AVSS
VTP
VREFP
VCOM
VREFN
VBT
VHALF
AIN
D9
D8
D7
D6
D5
DVDD
DVSS
D4
D3
D2
D1
D0
DIG_GEN
ADPB [0-9]
C3716 0.1/UFV
C3717 0.1/UFV
C3718 0.1/UFV
C3719 0.1/UFV
R3738 PAT/J3
C3720 0.1/UFV
R3739 PAT/J3
C3714
0.1/UFV
C3715
0.1/UFV
D3700
MA143-GTX
L3702
100U/LC
C3721
0.1/UFV
C3722
6V47/EHB
L3703
100U/LC
C3724
0.1/UFV
C3725
6V47/EHB
PB_CS
PB_INC
PB_UD
DIG_GEN
COMPONENT_L
COMP_IN, SYNC_SEP, 2nd_AD_Y (PR), EVR
CMPST_PB
CDEM
IC3702
THC4053FTEL
CMPNT_PB
M2B_SEL
IC3703
NJM084M-T1
R3744
100/J3
Q3709
2SD601A-TX
R3746
10K/J3
R3747
10K/J3
C3723
0.1/UFV
R3748
1200/RE7
R3749
22K/J3
Q3710
2SD1979-TX
R3743
1200/J3
R3745
PAT/J3
R3763
56K/J3
PBOFS
EVR
SETUP_CUT_L
2nd_AD_Y (PR), DIG_GEN
Q3711
2SB709A-TX
C3730
0.1/UFV
R3752
4700/J3
IC3703
NJM084M-T1
R3754
1000/J3
R3755
1M/J3
R3758
1M/J3
Q3712
2SK198-RTX
R3756
100/J3
R3757
10K/J3
C3731
0.1/UBV
R3753
100/J3
C3733
0.1/UBV
C3732
PAT/UV
IC3703
NJM084M-T1
L3705
820U/LB
R3759
2200/J3
C3734
330P/UV
C3735
47P/UV
IC3703
NJM084M-T1
C3728
16V47/EHB
R3750
390K/J3
R3751
100K/J3
CLAMP_C
2nd_AD_PR, DIG_GEN
-5VA4
POWER, M2B_SEL, 2nd_AD_Y (PR)
L3704
100U/LC
C3726
0.1/UFV
C3727
6V47/EHB
C3729
0.1/UFV
R3760 PAT/J6
R3761 PAT/J6
R3762 PAT/J6
TG3700
EYF6CU
AGND
DGND
A
B
C
D
E
F
G
H
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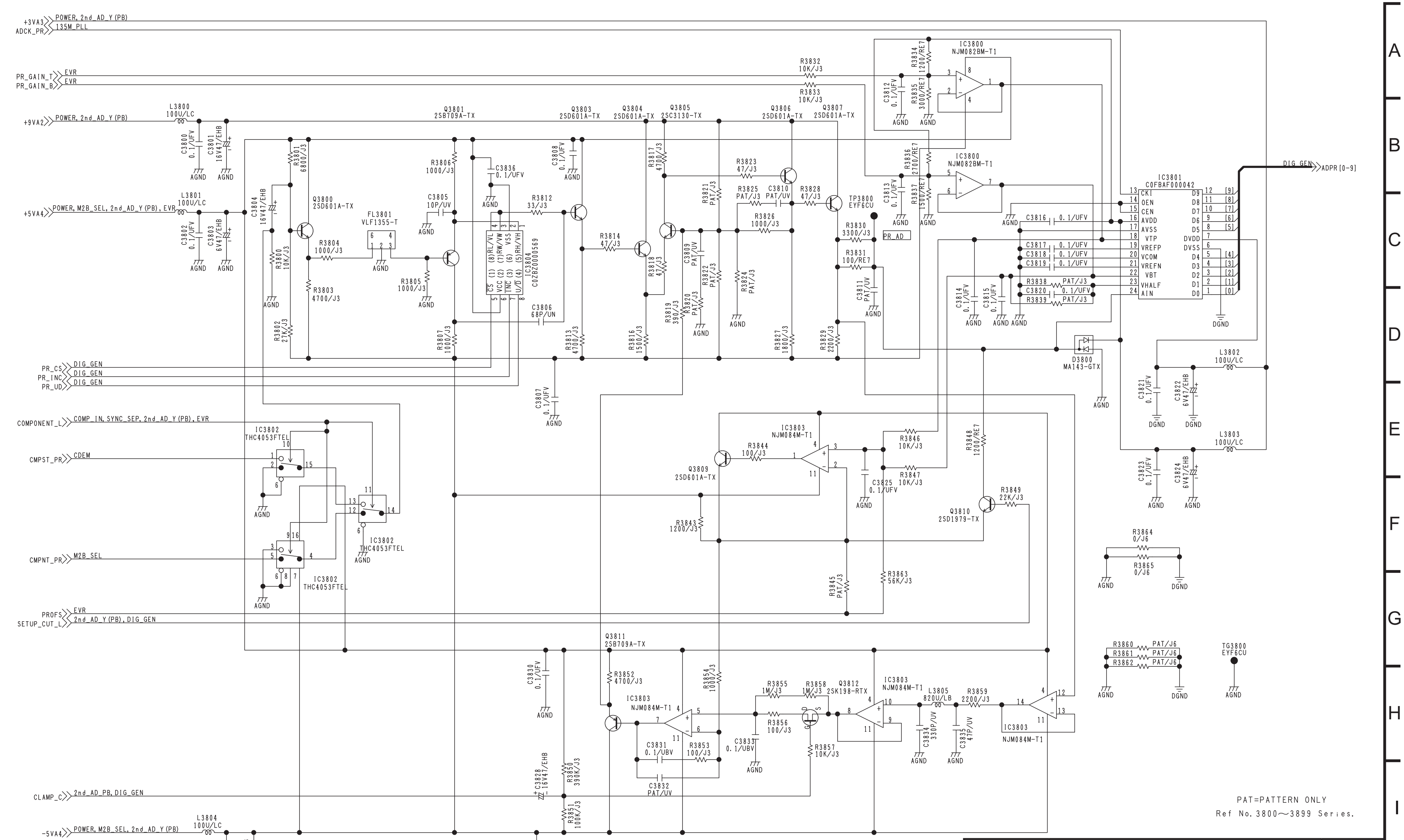
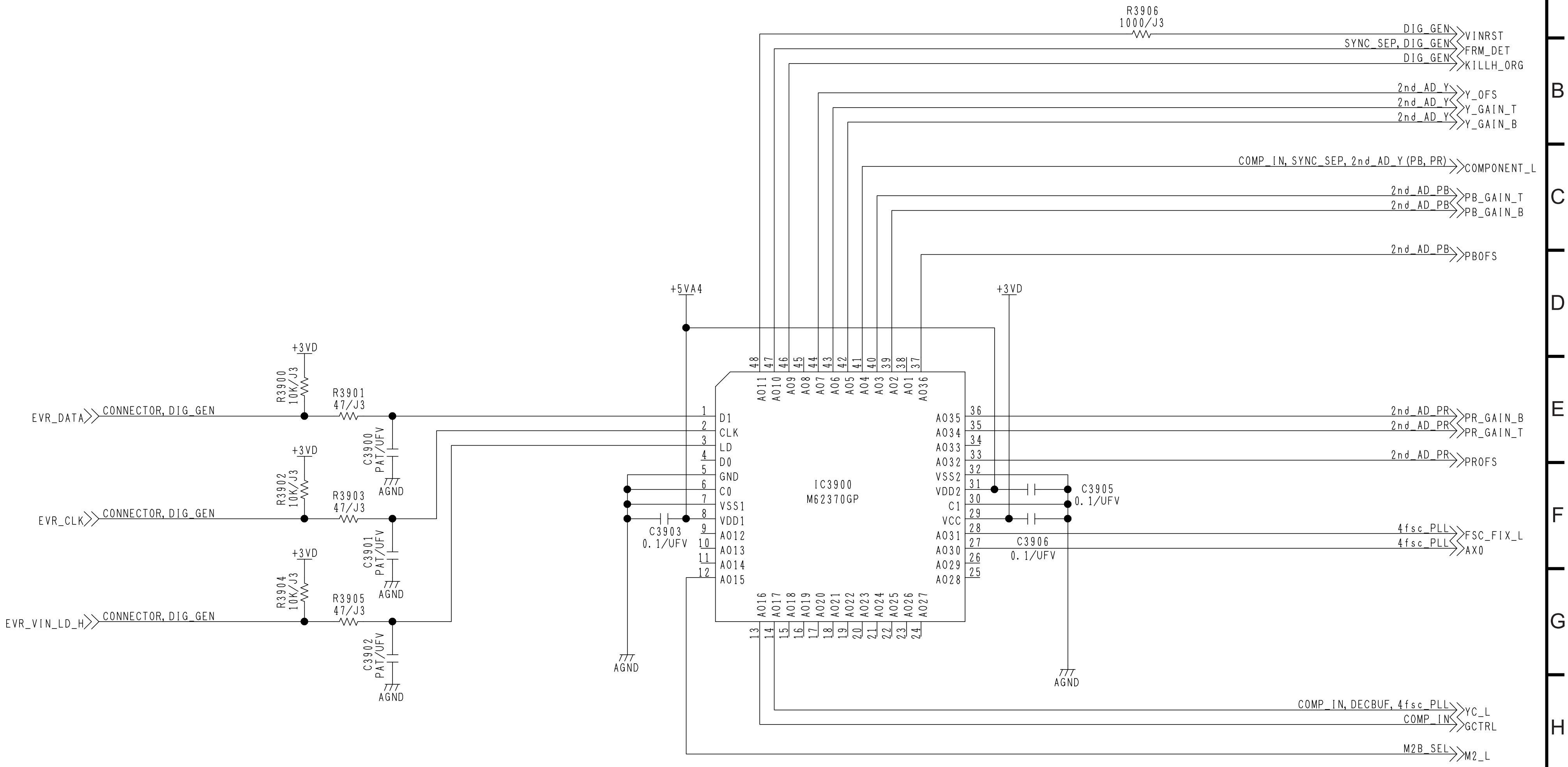
PAT=PATTERN ONLY
Ref No. 3700〜3799 Series.

COMPONENT NAME	**F5:V_IN (2nd_AD_PB)**	14/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (14/18)	
	SCM076	


+3VA3 POWER, 2nd_AD_Y(PB)
ADCK_PR 135M_PLL
PR_GAIN_T EVR
PR_GAIN_B EVR
+9VA2 POWER, 2nd_AD_Y(PB)
+5VA4 POWER, M2B_SEL, 2nd_AD_Y(PB), EVR
PR_CS DIG_GEN
PR_INC DIG_GEN
PR_UD DIG_GEN
COMPONENT_L COMP_IN, SYNC_SEP, 2nd_AD_Y(PB), EVR
CMPST_PR CDEM
CMPNT_PR M2B_SEL
PROFS EVR
SETUP_CUT_L 2nd_AD_Y(PB), DIG_GEN
CLAMP_C 2nd_AD_PB, DIG_GEN
-5VA4 POWER, M2B_SEL, 2nd_AD_Y(PB)
DIG_GEN ADPR[0-9]
IC3800 NJM082BM-T1
IC3801 C0FBAF000042
IC3802 THC4053FTEL
IC3803 NJM084M-T1
IC3804 C0ZBZ0000569
Q3800 2SD601A-TX
Q3801 2SB709A-TX
Q3803 2SD601A-TX
Q3804 2SD601A-TX
Q3805 2SC3130-TX
Q3806 2SD601A-TX
Q3807 2SD601A-TX
Q3809 2SD601A-TX
Q3810 2SD1979-TX
Q3811 2SB709A-TX
Q3812 2SK198-RTX
FL3801 VLF1355-T
D3800 MA143-GTX
TP3800 EYF6CU
TG3800 EYF6CU
L3800 100U/LC
L3801 100U/LC
L3802 100U/LC
L3803 100U/LC
L3804 100U/LC
L3805 820U/LB
AGND
DGND
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J

PAT=PATTERN ONLY
Ref No.3800～3899 Series.

COMPONENT NAME	F5:V_IN (2nd_AD_PR)	15/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (15/18)	
	SCM077	


R3906
1000/J3
DIG_GEN
VINRST
SYNC_SEP, DIG_GEN
FRM_DET
DIG_GEN
KILLH_ORG
2nd_AD_Y
Y_OFS
2nd_AD_Y
Y_GAIN_T
2nd_AD_Y
Y_GAIN_B
COMP_IN, SYNC_SEP, 2nd_AD_Y (PB, PR)
COMPONENT_L
2nd_AD_PB
PB_GAIN_T
2nd_AD_PB
PB_GAIN_B
2nd_AD_PB
PBOFS
+5VA4
+3VD
+3VD
R3900
10K/J3
R3901
47/J3
EVR_DATA
CONNECTOR, DIG_GEN
C3900
PAT/UFV
AGND
+3VD
R3902
10K/J3
R3903
47/J3
EVR_CLK
CONNECTOR, DIG_GEN
C3901
PAT/UFV
AGND
+3VD
R3904
10K/J3
R3905
47/J3
EVR_VIN_LD_H
CONNECTOR, DIG_GEN
C3902
PAT/UFV
AGND
IC3900
M62370GP
1 D1
2 CLK
3 LD
4 D0
5 GND
6 C0
7 VSS1
8 VDD1
9 AO12
10 AO13
11 AO14
12 AO15
48 AO11
47 AO10
46 AO9
45 AO8
44 AO7
43 AO6
42 AO5
41 AO4
40 AO3
39 AO2
38 AO1
37 AO36
36 AO35
35 AO34
34 AO33
33 AO32
32 VSS2
31 VDD2
30 C1
29 VCC
28 AO31
27 AO30
26 AO29
25 AO28
13 AO16
14 AO17
15 AO18
16 AO19
17 AO20
18 AO21
19 AO22
20 AO23
21 AO24
22 AO25
23 AO26
24 AO27
C3903
0.1/UFV
AGND
C3905
0.1/UFV
C3906
0.1/UFV
AGND
2nd_AD_PR
PR_GAIN_B
2nd_AD_PR
PR_GAIN_T
2nd_AD_PR
PROFS
4fsc_PLL
FSC_FIX_L
4fsc_PLL
AX0
COMP_IN, DECBUF, 4fsc_PLL
YC_L
COMP_IN
GCTRL
M2B_SEL
M2_L
A
B
C
D
E
F
G
H
I
J
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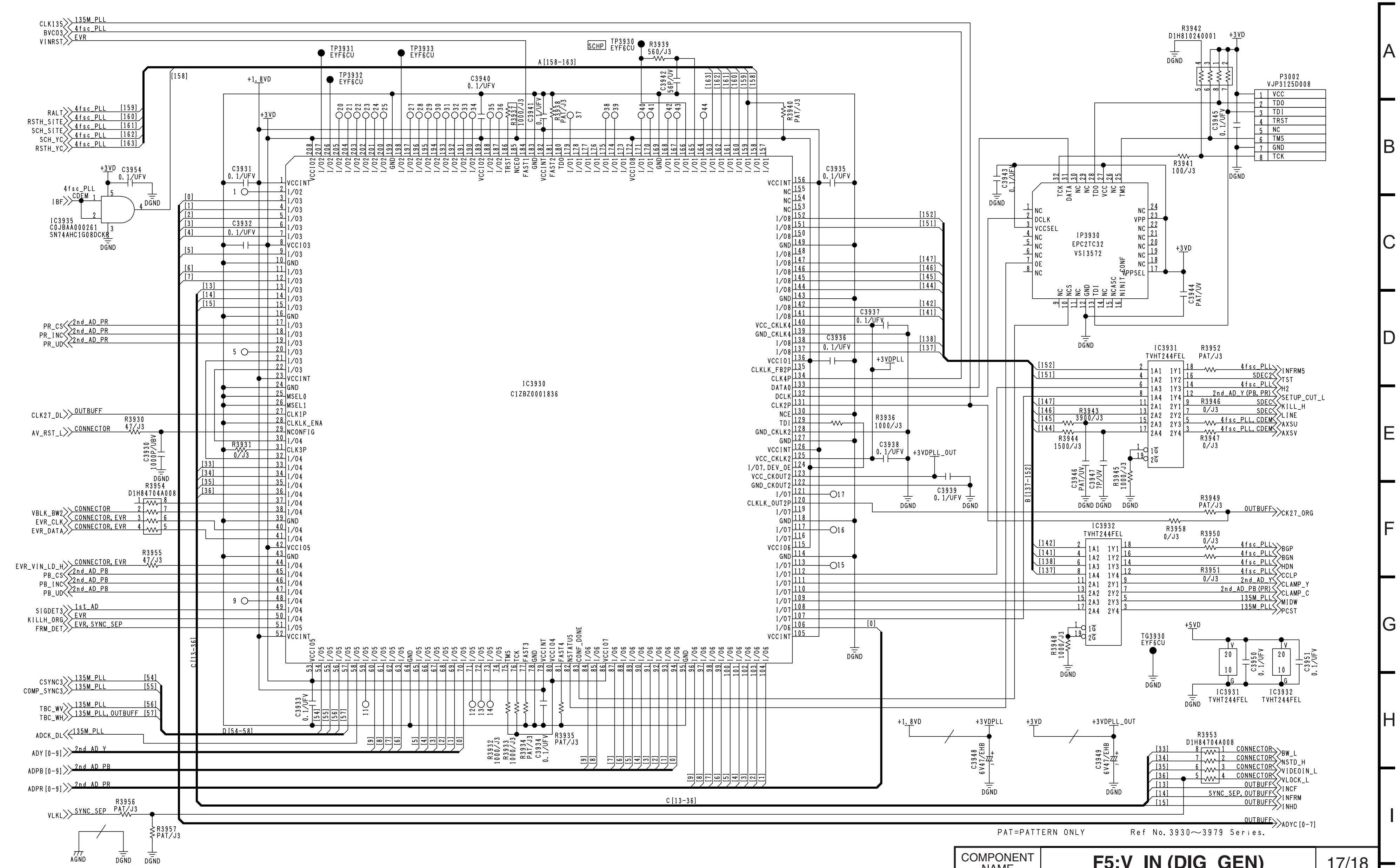
PAT=PATTERN ONLY

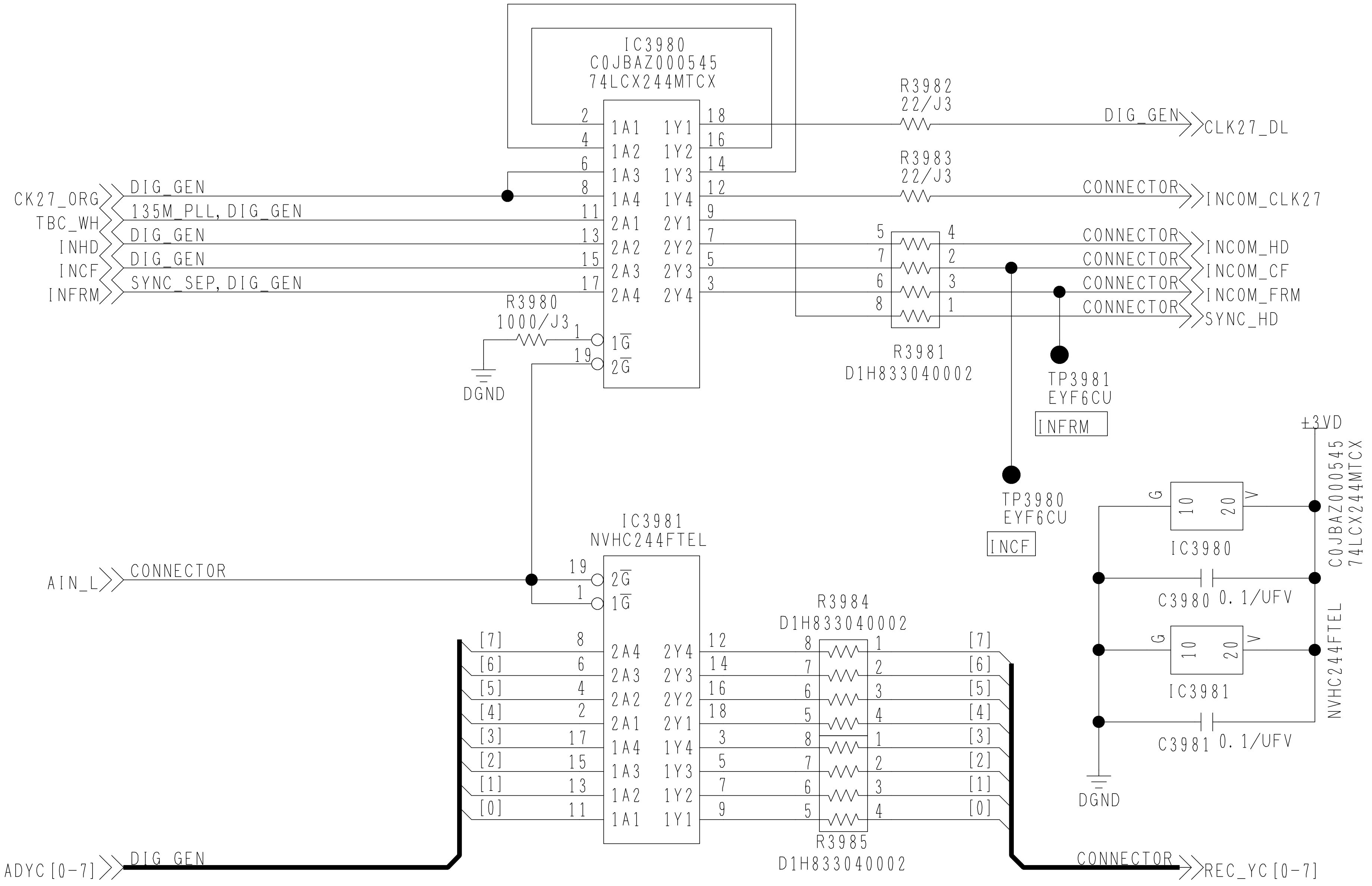
Ref No. 3900～3929 Series.

COMPONENT NAME	F5:V_IN (EVR)	16/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (16/18)	
	SCM078	


CLK135
BVCO3
VINRST
135M_PLL
4fsc_PLL
EVR
RALT
RSTH_SITE
SCH_SITE
SCH_YC
RSTH_YC
IBF
4fsc_PLL
CDEM
IC3935
C0JBAA000261
SN74AHC1G08DCKR
C3954
0.1/UFV
+3VD
DGND
PR_CS
PR_INC
PR_UD
2nd_AD_PR
CLK27_DL
OUTBUFF
AV_RST_L
CONNECTOR
R3930
47/J3
C3930
1000P/UBV
R3954
D1H84704A008
VBLK_BW2
EVR_CLK
EVR_DATA
CONNECTOR, EVR
R3955
47/J3
EVR_VIN_LD_H
PB_CS
PB_INC
PB_UD
2nd_AD_PB
SIGDET3
KILLH_ORG
FRM_DET
1st_AD
EVR, SYNC_SEP
CSYNC3
COMP_SYNC3
TBC_WV
TBC_WH
135M_PLL, OUTBUFF
ADCK_DL
ADY[0-9]
ADPB[0-9]
ADPR[0-9]
2nd_AD_Y
VLKL
SYNC_SEP
R3956
PAT/J3
R3957
PAT/J3
AGND
DGND
TP3931
EYF6CU
TP3932
EYF6CU
TP3933
EYF6CU
TP3930
EYF6CU
SCHP
R3939
560/J3
C3942
56P/UV
A[158-163]
+1.8VD
C3940
0.1/UFV
C3941
0.1/UFV
R3937
1000/J3
R3938
PAT/J3
R3940
PAT/J3
C3931
0.1/UFV
C3932
0.1/UFV
C3935
0.1/UFV
C3936
0.1/UFV
C3937
0.1/UFV
C3938
0.1/UFV
C3939
0.1/UFV
R3931
0/J3
R3936
1000/J3
+3VDPLL
+3VDPLL_OUT
IC3930
C1ZBZ0001836
VCCINT
VCCIO1
VCCIO2
VCCIO3
VCCIO4
VCCIO5
VCCIO6
VCCIO7
VCCIO8
MSEL0
MSEL1
CLK1P
CLKLK_ENA
NCONFIG
CLK3P
NCE
TDI
DCLK
DATA0
CLK4P
CLK2P
CLKLK_FB2P
CLKLK_OUT2P
VCC_CKLK4
GND_CKLK4
VCC_CKLK2
GND_CKLK2
VCC_CKOUT2
GND_CKOUT2
I/O7, DEV_OE
NSTATUS
CONF_DONE
FAST1
FAST2
FAST3
FAST4
NCEO
TRST
TMS
TCK
TDO
C3933
0.1/UFV
R3932
1000/J3
R3933
1000/J3
R3934
PAT/J3
R3935
PAT/J3
C3934
0.1/UFV
D[54-58]
C[13-36]
R3942
D1H810240001
P3002
VJP3125D008
VCC
TDO
TDI
TRST
NC
TMS
GND
TCK
C3945
0.1/UFV
R3941
100/J3
C3943
0.1/UFV
IP3930
EPC2TC32
VS13572
DCLK
VCCSEL
OE
VPP
VPPSEL
NCASC
NINIT_CONF
DATA
C3944
PAT/UV
IC3931
TVHT244FEL
R3952
PAT/J3
INFRM5
SDEC2
TST
H2
SETUP_CUT_L
KILL_H
LINE
AXSU
AXSV
2nd_AD_Y(PB, PR)
SDEC
4fsc_PLL, CDEM
R3943
3900/J3
R3944
1500/J3
R3946
0/J3
R3947
0/J3
C3946
PAT/UV
C3947
7P/UV
R3945
1000/J3
B[137-152]
R3949
PAT/J3
CK27_ORG
R3958
0/J3
IC3932
TVHT244FEL
R3950
0/J3
R3951
0/J3
BGP
BGN
HDN
CCLP
CLAMP_Y
CLAMP_C
MIDW
PCST
2nd_AD_PB(PR)
R3948
1000/J3
TG3930
EYF6CU
+5VD
C3950
0.1/UFV
C3951
0.1/UFV
C3948
6V47/EHB
C3949
6V47/EHB
+3VD
R3953
D1H84704A008
BW_L
NSTD_H
VIDEOIN_L
VLOCK_L
INCF
INFRM
INHD
SYNC_SEP, OUTBUFF
ADYC[0-7]
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J

PAT=PATTERN ONLY　　Ref No.3930～3979 Series.

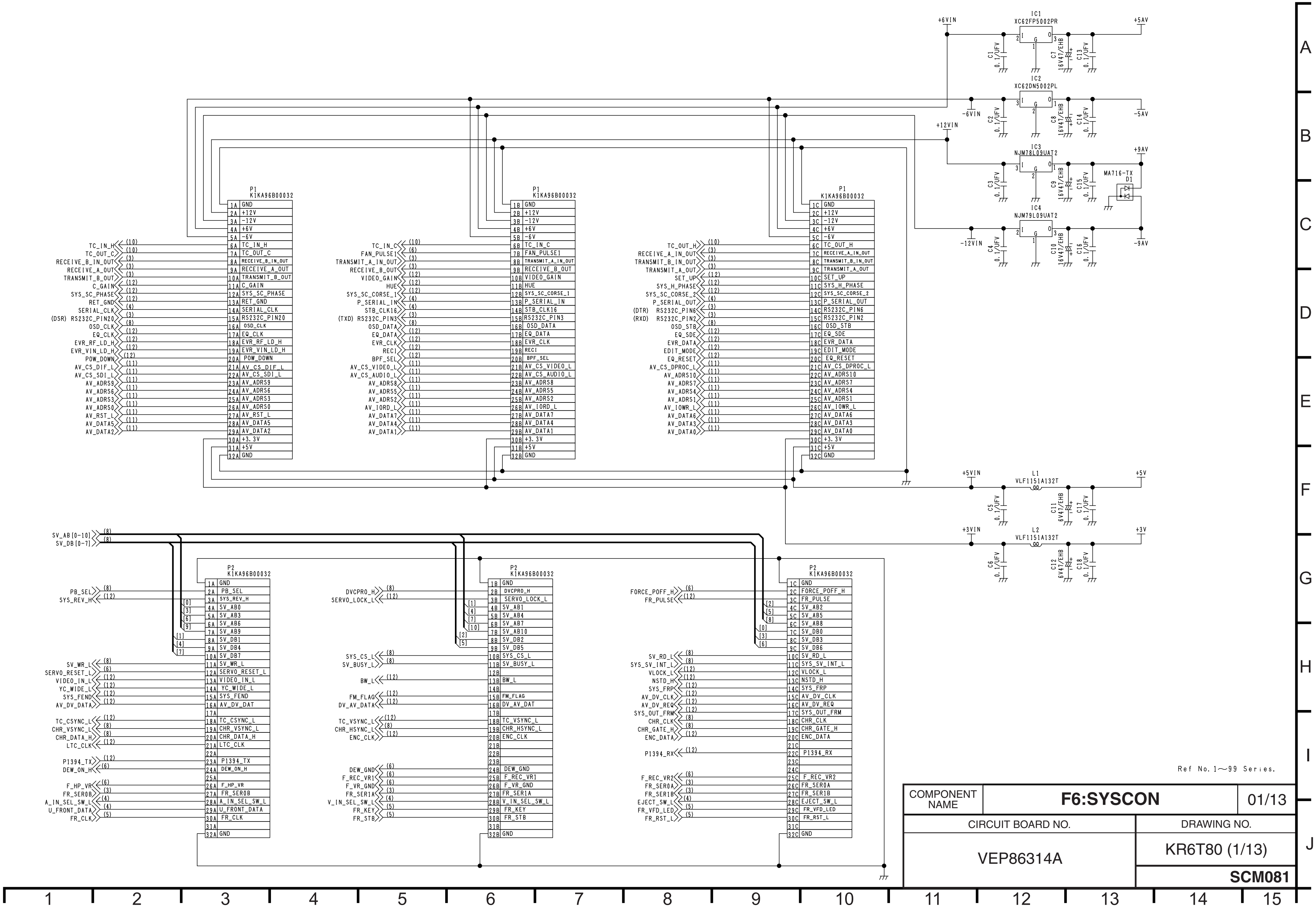
COMPONENT NAME	F5:V_IN (DIG_GEN)	17/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (17/18)	
	SCM079	


IC3980
C0JBAZ000545
74LCX244MTCX
1A1 1A2 1A3 1A4 2A1 2A2 2A3 2A4
1Y1 1Y2 1Y3 1Y4 2Y1 2Y2 2Y3 2Y4
1G 2G
R3982
22/J3
R3983
22/J3
DIG_GEN
CLK27_DL
CONNECTOR
INCOM_CLK27
CK27_ORG
DIG_GEN
TBC_WH
135M_PLL, DIG_GEN
INHD
DIG_GEN
INCF
DIG_GEN
INFRM
SYNC_SEP, DIG_GEN
INCOM_HD
INCOM_CF
INCOM_FRM
SYNC_HD
R3980
1000/J3
DGND
R3981
D1H833040002
TP3981
EYF6CU
INFRM
TP3980
EYF6CU
INCF
+3VD
C0JBAZ000545
74LCX244MTCX
IC3980
C3980 0.1/UFV
NVHC244FTEL
IC3981
C3981 0.1/UFV
DGND
IC3981
NVHC244FTEL
AIN_L
CONNECTOR
R3984
D1H833040002
R3985
D1H833040002
ADYC[0-7]
DIG_GEN
CONNECTOR
REC_YC[0-7]
[7] [6] [5] [4] [3] [2] [1] [0]
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY

Ref No.3980～3999 Series.

COMPONENT NAME	**F5:V_IN (OUTBUFF)**	18/18
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83553A	KR30087 (18/18)	
	SCM080	



IC1
XC62FP5002PR
+6VIN
+5AV
C1 0.1/UFV
C7 16V47/EHB
C13 0.1/UFV
IC2
XC62DN5002PL
-6VIN
-5AV
C2 0.1/UFV
C8 16V47/EHB
C14 0.1/UFV
+12VIN
IC3
NJM78L09UAT2
+9AV
C3 0.1/UFV
C9 16V47/EHB
C15 0.1/UFV
MA716-TX
D1
IC4
NJM79L09UAT2
-12VIN
-9AV
C4 0.1/UFV
C10 16V47/EHB
C16 0.1/UFV
P1
K1KA96B00032
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A TC_IN_H
7A TC_OUT_C
8A RECEIVE_B_IN_OUT
9A RECEIVE_A_OUT
10A TRANSMIT_B_OUT
11A C_GAIN
12A SYS_SC_PHASE
13A RET_GND
14A SERIAL_CLK
15A RS232C_PIN20
16A OSD_CLK
17A EQ_CLK
18A EVR_RF_LD_H
19A EVR_VIN_LD_H
20A POW_DOWN
21A AV_CS_DIF_L
22A AV_CS_SDI_L
23A AV_ADRS9
24A AV_ADRS6
25A AV_ADRS3
26A AV_ADRS0
27A AV_RST_L
28A AV_DATA5
29A AV_DATA2
30A +3.3V
31A +5V
32A GND
TC_IN_H (10)
TC_OUT_C (10)
RECEIVE_B_IN_OUT (3)
RECEIVE_A_OUT (3)
TRANSMIT_B_OUT (3)
C_GAIN (12)
SYS_SC_PHASE (12)
RET_GND (12)
SERIAL_CLK (4)
(DSR) RS232C_PIN20 (3)
OSD_CLK (8)
EQ_CLK (12)
EVR_RF_LD_H (12)
EVR_VIN_LD_H (12)
POW_DOWN (12)
AV_CS_DIF_L (11)
AV_CS_SDI_L (11)
AV_ADRS9 (11)
AV_ADRS6 (11)
AV_ADRS3 (11)
AV_ADRS0 (11)
AV_RST_L (11)
AV_DATA5 (11)
AV_DATA2 (11)
P1
K1KA96B00032
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B TC_IN_C
7B FAN_PULSE1
8B TRANSMIT_A_IN_OUT
9B RECEIVE_B_OUT
10B VIDEO_GAIN
11B HUE
12B SYS_SC_CORSE_1
13B P_SERIAL_IN
14B STB_CLK16
15B RS232C_PIN3
16B OSD_DATA
17B EQ_DATA
18B EVR_CLK
19B RECI
20B BPF_SEL
21B AV_CS_VIDEO_L
22B AV_CS_AUDIO_L
23B AV_ADRS8
24B AV_ADRS5
25B AV_ADRS2
26B AV_IORD_L
27B AV_DATA7
28B AV_DATA4
29B AV_DATA1
30B +3.3V
31B +5V
32B GND
TC_IN_C (10)
FAN_PULSE1 (6)
TRANSMIT_A_IN_OUT (3)
RECEIVE_B_OUT (3)
VIDEO_GAIN (12)
HUE (12)
SYS_SC_CORSE_1 (12)
P_SERIAL_IN (4)
STB_CLK16 (4)
(TXD) RS232C_PIN3 (3)
OSD_DATA (8)
EQ_DATA (12)
EVR_CLK (12)
RECI (12)
BPF_SEL (12)
AV_CS_VIDEO_L (11)
AV_CS_AUDIO_L (11)
AV_ADRS8 (11)
AV_ADRS5 (11)
AV_ADRS2 (11)
AV_IORD_L (11)
AV_DATA7 (11)
AV_DATA4 (11)
AV_DATA1 (11)
P1
K1KA96B00032
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C TC_OUT_H
7C RECEIVE_A_IN_OUT
8C TRANSMIT_B_IN_OUT
9C TRANSMIT_A_OUT
10C SET_UP
11C SYS_H_PHASE
12C SYS_SC_CORSE_2
13C P_SERIAL_OUT
14C RS232C_PIN6
15C RS232C_PIN2
16C OSD_STB
17C EQ_SDE
18C EVR_DATA
19C EDIT_MODE
20C EQ_RESET
21C AV_CS_DPROC_L
22C AV_ADRS10
23C AV_ADRS7
24C AV_ADRS4
25C AV_ADRS1
26C AV_IOWR_L
27C AV_DATA6
28C AV_DATA3
29C AV_DATA0
30C +3.3V
31C +5V
32C GND
TC_OUT_H (10)
RECEIVE_A_IN_OUT (3)
TRANSMIT_B_IN_OUT (3)
TRANSMIT_A_OUT (3)
SET_UP (12)
SYS_H_PHASE (12)
SYS_SC_CORSE_2 (12)
P_SERIAL_OUT (4)
(DTR) RS232C_PIN6 (3)
(RXD) RS232C_PIN2 (3)
OSD_STB (8)
EQ_SDE (12)
EVR_DATA (12)
EDIT_MODE (12)
EQ_RESET (12)
AV_CS_DPROC_L (11)
AV_ADRS10 (11)
AV_ADRS7 (11)
AV_ADRS4 (11)
AV_ADRS1 (11)
AV_IOWR_L (11)
AV_DATA6 (11)
AV_DATA3 (11)
AV_DATA0 (11)
+5VIN
L1
VLF1151A132T
+5V
C5 0.1/UFV
C11 6V47/EHB
C17 0.1/UFV
+3VIN
L2
VLF1151A132T
+3V
C6 0.1/UFV
C12 6V47/EHB
C18 0.1/UFV
SV_AB[0-10] (8)
SV_DB[0-7] (8)
P2
K1KA96B00032
1A GND
2A PB_SEL
3A SYS_REV_H
4A SV_AB0
5A SV_AB3
6A SV_AB6
7A SV_AB9
8A SV_DB1
9A SV_DB4
10A SV_DB7
11A SV_WR_L
12A SERVO_RESET_L
13A VIDEO_IN_L
14A YC_WIDE_L
15A SYS_FEND
16A AV_DV_DAT
17A
18A TC_CSYNC_L
19A CHR_VSYNC_L
20A CHR_DATA_H
21A LTC_CLK
22A
23A P1394_TX
24A DEW_ON_H
25A
26A F_HP_VR
27A FR_SER0B
28A A_IN_SEL_SW_L
29A U_FRONT_DATA
30A FR_CLK
31A
32A GND
[0] [3] [6] [9] [1] [4] [7]
PB_SEL (8)
SYS_REV_H (12)
SV_WR_L (8)
SERVO_RESET_L (6)
VIDEO_IN_L (12)
YC_WIDE_L (12)
SYS_FEND (12)
AV_DV_DATA (12)
TC_CSYNC_L (12)
CHR_VSYNC_L (8)
CHR_DATA_H (8)
LTC_CLK (12)
P1394_TX (12)
DEW_ON_H (6)
F_HP_VR (6)
FR_SER0B (3)
A_IN_SEL_SW_L (4)
U_FRONT_DATA (4)
FR_CLK (5)
P2
K1KA96B00032
1B GND
2B DVCPRO_H
3B SERVO_LOCK_L
4B SV_AB1
5B SV_AB4
6B SV_AB7
7B SV_AB10
8B SV_DB2
9B SV_DB5
10B SYS_CS_L
11B SV_BUSY_L
12B
13B BW_L
14B
15B FM_FLAG
16B DV_AV_DAT
17B
18B TC_VSYNC_L
19B CHR_HSYNC_L
20B ENC_CLK
21B
22B
23B
24B DEW_GND
25B F_REC_VR1
26B F_VR_GND
27B FR_SER1A
28B V_IN_SEL_SW_L
29B FR_KEY
30B FR_STB
31B
32B GND
[1] [4] [7] [10] [2] [5]
DVCPRO_H (8)
SERVO_LOCK_L (12)
SYS_CS_L (8)
SV_BUSY_L (8)
BW_L (12)
FM_FLAG (12)
DV_AV_DATA (12)
TC_VSYNC_L (12)
CHR_HSYNC_L (8)
ENC_CLK (12)
DEW_GND (6)
F_REC_VR1 (6)
F_VR_GND (6)
FR_SER1A (3)
V_IN_SEL_SW_L (4)
FR_KEY (5)
FR_STB (5)
P2
K1KA96B00032
1C GND
2C FORCE_POFF_H
3C FR_PULSE
4C SV_AB2
5C SV_AB5
6C SV_AB8
7C SV_DB0
8C SV_DB3
9C SV_DB6
10C SV_RD_L
11C SYS_SV_INT_L
12C VLOCK_L
13C NSTD_H
14C SYS_FRP
15C AV_DV_CLK
16C AV_DV_REQ
17C SYS_OUT_FRM
18C CHR_CLK
19C CHR_GATE_H
20C ENC_DATA
21C
22C P1394_RX
23C
24C
25C F_REC_VR2
26C FR_SER0A
27C FR_SER1B
28C EJECT_SW_L
29C FR_VFD_LED
30C FR_RST_L
31C
32C GND
[2] [5] [8] [0] [3] [6]
FORCE_POFF_H (6)
FR_PULSE (12)
SV_RD_L (8)
SYS_SV_INT_L (8)
VLOCK_L (12)
NSTD_H (12)
SYS_FRP (12)
AV_DV_CLK (12)
AV_DV_REQ (12)
SYS_OUT_FRM (12)
CHR_CLK (8)
CHR_GATE_H (8)
ENC_DATA (12)
P1394_RX (12)
F_REC_VR2 (6)
FR_SER0A (3)
FR_SER1B (3)
EJECT_SW_L (4)
FR_VFD_LED (5)
FR_RST_L (5)
A
B
C
D
E
F
G
H
I
J
1
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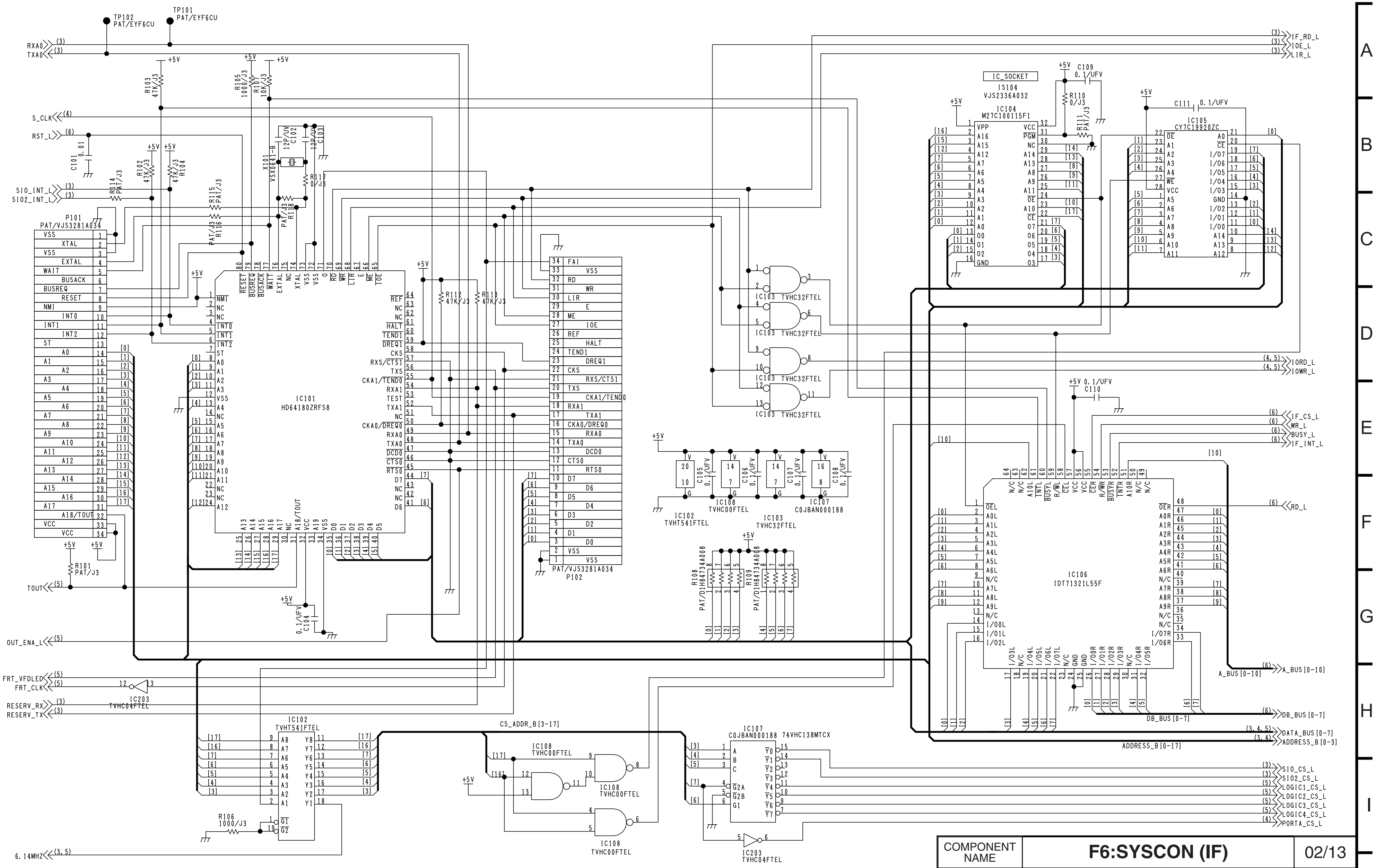
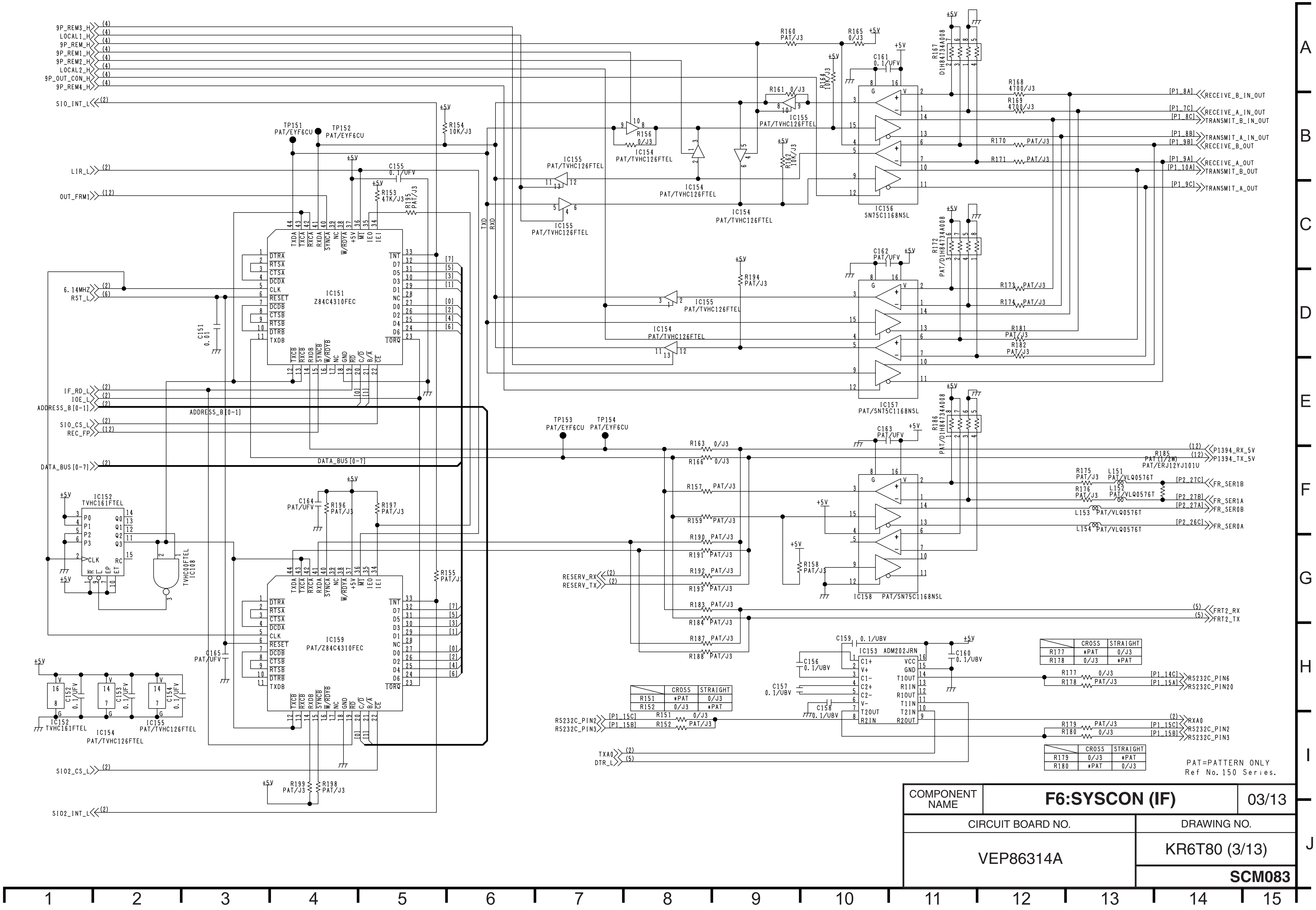
Ref No.1~99 Series.

COMPONENT NAME	F6:SYSCON	01/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (1/13)	
	SCM081	


TP102 PAT/EYF6CU
TP101 PAT/EYF6CU
RXA0
TXA0
S_CLK
RST_L
SIO_INT_L
SIO2_INT_L
P101 PAT/VJS3281A034
IC101 HD64180ZRFS8
P102 PAT/VJS3281A034
X101 VSX0641-B
C101 0.01
C102 12P/UV
C103 12P/UV
C104 0.1/UFV
R101 PAT/J3
R102 47K/J3
R103 47K/J3
R104 47K/J3
R105 1000/J3
R106 1000/J3
R107 10K/J3
R112 47K/J3
R113 47K/J3
R114 PAT/J3
R115 PAT/J3
R116 PAT/J3
R117 0/J3
R118 PAT/J3
TOUT
OUT_ENA_L
FRT_VFDLED
FRT_CLK
RESERV_RX
RESERV_TX
IC203 TVHC04FTEL
IC102 TVHT541FTEL
6.14MHZ
CS_ADDR_B[3-17]
IC108 TVHC00FTEL
IC107 C0JBAN000188 74VHC138MTCX
IC103 TVHC32FTEL
IC102 TVHT541FTEL
IC107 C0JBAN000188
C105 0.1/UFV
C106 0.1/UFV
C107 0.1/UFV
C108 0.1/UFV
R108 PAT/D1H84734A008
R109 PAT/D1H84734A008
IC_SOCKET
IS104 VJS2336A032
IC104 M27C100115F1
C109 0.1/UFV
R110 0/J3
R111 PAT/J3
IC105 CY7C19920ZC
C111 0.1/UFV
C110 0.1/UFV
IC106 IDT71321L55F
IF_RD_L
IOE_L
LIR_L
IORD_L
IOWR_L
IF_CS_L
WR_L
BUSY_L
IF_INT_L
RD_L
A_BUS[0-10]
DB_BUS[0-7]
DATA_BUS[0-7]
ADDRESS_B[0-3]
ADDRESS_B[0-17]
SIO_CS_L
SIO2_CS_L
LOGIC1_CS_L
LOGIC2_CS_L
LOGIC3_CS_L
LOGIC4_CS_L
PORTA_CS_L
+5V

PAT=PATTERN ONLY
Ref No.100 Series.

COMPONENT NAME	F6:SYSCON (IF)	02/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (2/13)	
	SCM082	


9P_REM3_H
LOCAL1_H
9P_REM_H
9P_REM1_H
9P_REM2_H
LOCAL2_H
9P_OUT_CON_H
9P_REM4_H
SIO_INT_L
LIR_L
OUT_FRM1
6.14MHZ
RST_L
IF_RD_L
IOE_L
ADDRESS_B[0-1]
SIO_CS_L
REC_FP
DATA_BUS[0-7]
SIO2_CS_L
SIO2_INT_L
TP151 PAT/EYF6CU
TP152 PAT/EYF6CU
TP153 PAT/EYF6CU
TP154 PAT/EYF6CU
IC151 Z84C4310FEC
IC159 PAT/Z84C4310FEC
IC152 TVHC161FTEL
IC108 TVHC00FTEL
IC154 PAT/TVHC126FTEL
IC155 PAT/TVHC126FTEL
IC156 SN75C1168NSL
IC157 PAT/SN75C1168NSL
IC158 PAT/SN75C1168NSL
IC153 ADM202JRN
R154 10K/J3
R153 47K/J3
R195 PAT/J3
C155 0.1/UFV
C151 0.01
R160 PAT/J3
R165 0/J3
R161 0/J3
R156 0/J3
R162 10K/J3
R164 10K/J3
C161 0.1/UFV
R167 D1H8734A008
R168 4700/J3
R169 4700/J3
R170 PAT/J3
R171 PAT/J3
R172 PAT/D1H8734A008
C162 PAT/UFV
R194 PAT/J3
R173 PAT/J3
R174 PAT/J3
R181 PAT/J3
R182 PAT/J3
R186 PAT/D1H8734A008
C163 PAT/UFV
R163 0/J3
R166 0/J3
R185 PAT(1/2W) PAT/ERJ12YJ101U
R157 PAT/J3
R159 PAT/J3
R190 PAT/J3
R191 PAT/J3
R192 PAT/J3
R193 PAT/J3
R183 PAT/J3
R184 PAT/J3
R187 PAT/J3
R188 PAT/J3
R158 PAT/J3
R175 PAT/J3
R176 PAT/J3
L151 PAT/VLQ0576T
L152 PAT/VLQ0576T
L153 PAT/VLQ0576T
L154 PAT/VLQ0576T
C164 PAT/UFV
R196 PAT/J3
R197 PAT/J3
R155 PAT/J3
C165 PAT/UFV
R199 PAT/J3
R198 PAT/J3
C152 0.1/UFV
C153 0.1/UFV
C154 0.1/UFV
C159 0.1/UBV
C156 0.1/UBV
C157 0.1/UBV
C158 0.1/UBV
C160 0.1/UBV
R151 0/J3
R152 PAT/J3
R177 0/J3
R178 PAT/J3
R179 PAT/J3
R180 0/J3
+5V
[P1_8A] RECEIVE_B_IN_OUT
[P1_7C] RECEIVE_A_IN_OUT
[P1_8C] TRANSMIT_B_IN_OUT
[P1_8B] TRANSMIT_A_IN_OUT
[P1_9B] RECEIVE_B_OUT
[P1_9A] RECEIVE_A_OUT
[P1_10A] TRANSMIT_B_OUT
[P1_9C] TRANSMIT_A_OUT
P1394_RX_5V
P1394_TX_5V
[P2_27C] FR_SER1B
[P2_27B] FR_SER1A
[P2_27A] FR_SER0B
[P2_26C] FR_SER0A
RESERV_RX
RESERV_TX
FRT2_RX
FRT2_TX
RS232C_PIN2 [P1_15C]
RS232C_PIN3 [P1_15B]
TXA0
DTR_L
[P1_14C] RS232C_PIN6
[P1_15A] RS232C_PIN20
RXA0
[P1_15C] RS232C_PIN2
[P1_15B] RS232C_PIN3
ADDRESS_B[0-1]
DATA_BUS[0-7]
TXD
RXD
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J

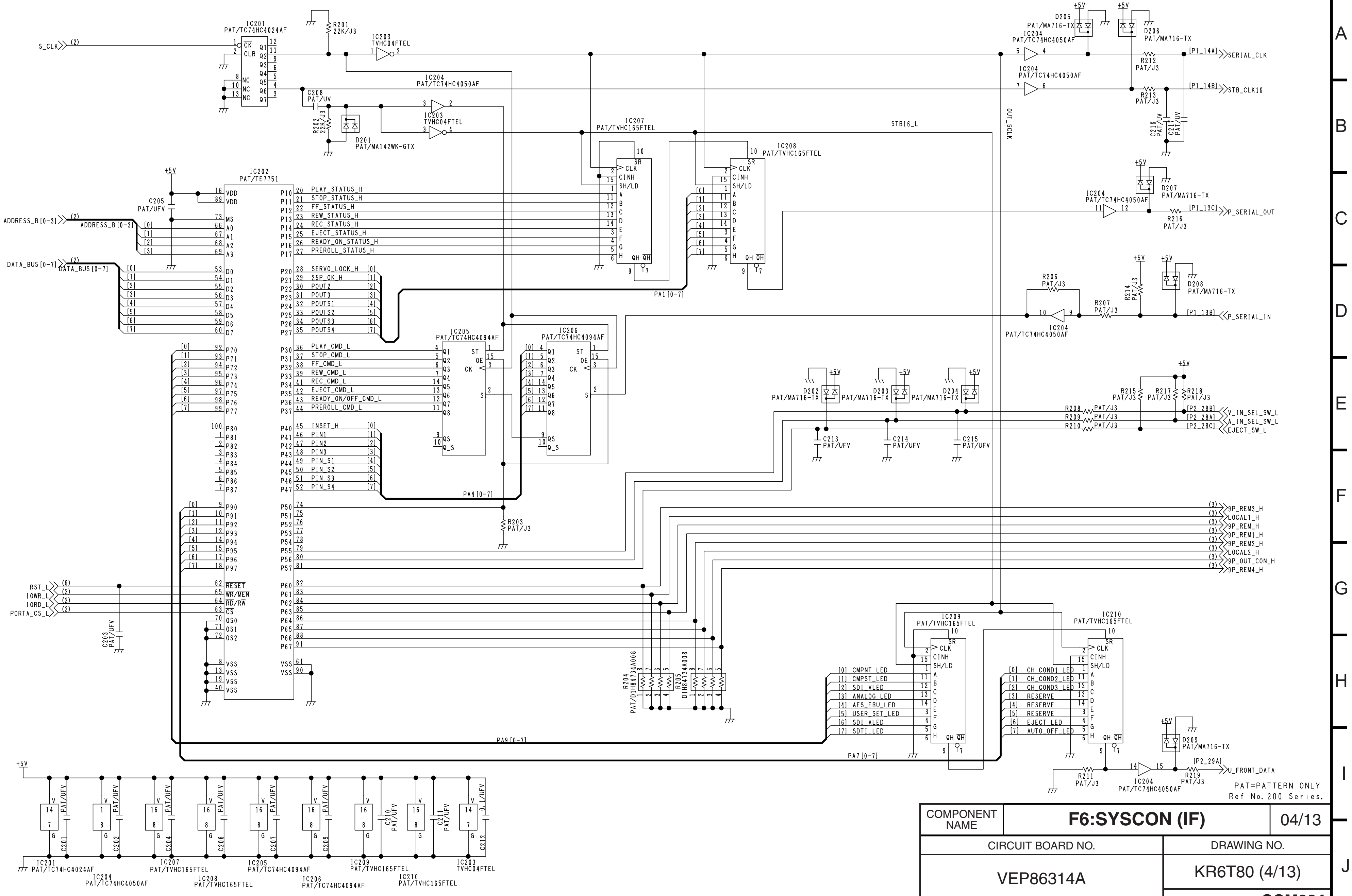
	CROSS	STRAIGHT
R177	*PAT	0/J3
R178	0/J3	*PAT

	CROSS	STRAIGHT
R151	*PAT	0/J3
R152	0/J3	*PAT

	CROSS	STRAIGHT
R179	0/J3	*PAT
R180	*PAT	0/J3

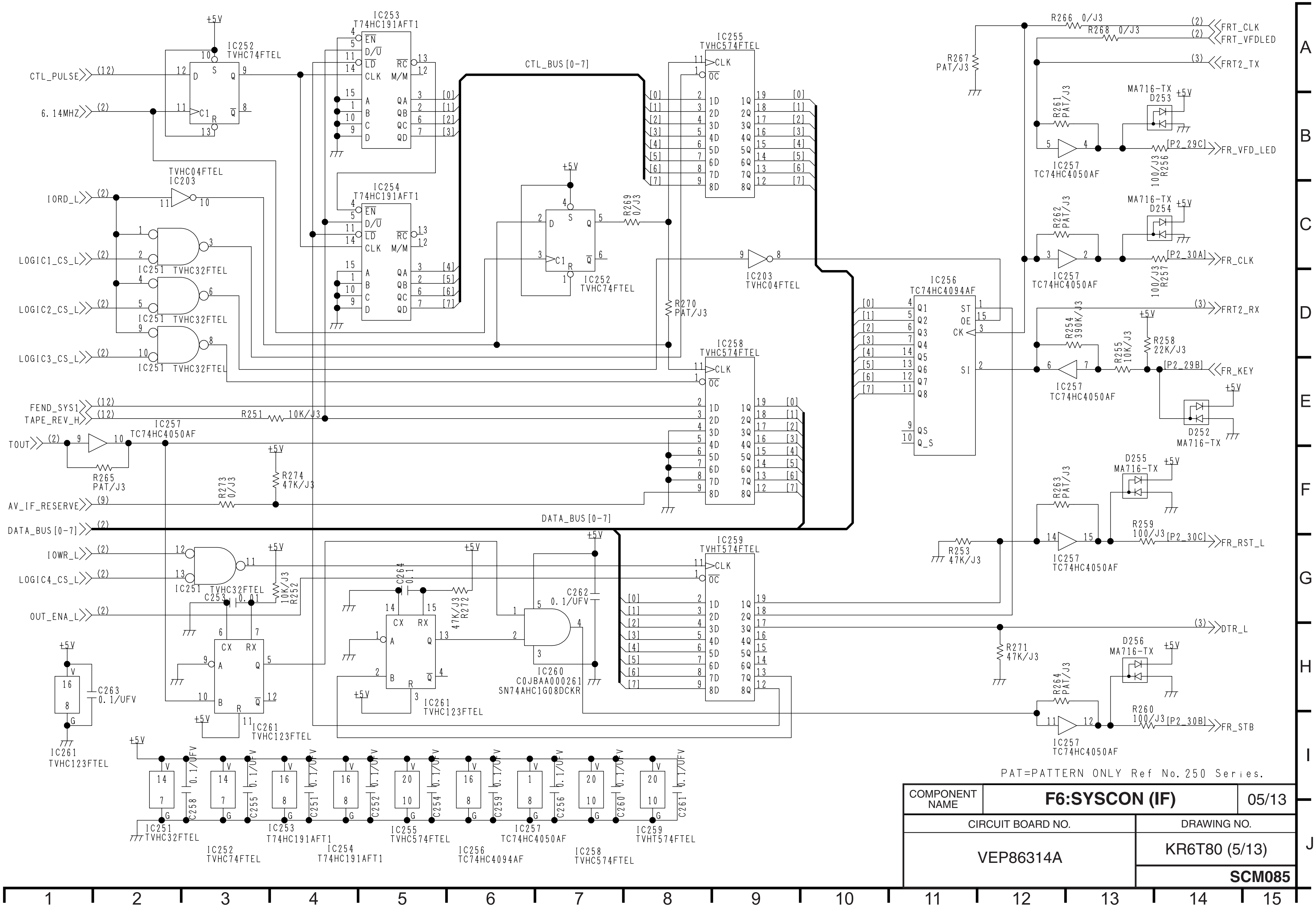
PAT=PATTERN ONLY
Ref No.150 Series.

COMPONENT NAME	F6:SYSCON (IF)	03/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (3/13)	
	SCM083	


S_CLK
IC201 PAT/TC74HC4024AF
R201 22K/J3
IC203 TVHC04FTEL
IC204 PAT/TC74HC4050AF
C208 PAT/UV
R202 22K/J3
D201 PAT/MA142WK-GTX
IC207 PAT/TVHC165FTEL
IC208 PAT/TVHC165FTEL
STB16_L
OUT_SCLK
D205 PAT/MA716-TX
D206 PAT/MA716-TX
R212 PAT/J3
R213 PAT/J3
C216 PAT/UV
C217 PAT/UV
[P1_14A] SERIAL_CLK
[P1_14B] STB_CLK16
D207 PAT/MA716-TX
R216 PAT/J3
[P1_13C] P_SERIAL_OUT
R206 PAT/J3
R207 PAT/J3
R214 PAT/J3
D208 PAT/MA716-TX
[P1_13B] P_SERIAL_IN
IC202 PAT/TE7751
C205 PAT/UFV
ADDRESS_B[0-3]
DATA_BUS[0-7]
PLAY_STATUS_H
STOP_STATUS_H
FF_STATUS_H
REW_STATUS_H
REC_STATUS_H
EJECT_STATUS_H
READY_ON_STATUS_H
PREROLL_STATUS_H
SERVO_LOCK_H
25P_OK_H
POUT2
POUT3
POUTS1
POUTS2
POUTS3
POUTS4
PA1[0-7]
IC205 PAT/TC74HC4094AF
IC206 PAT/TC74HC4094AF
PLAY_CMD_L
STOP_CMD_L
FF_CMD_L
REW_CMD_L
REC_CMD_L
EJECT_CMD_L
READY_ON/OFF_CMD_L
PREROLL_CMD_L
INSET_H
PIN1
PIN2
PIN3
PIN_S1
PIN_S2
PIN_S3
PIN_S4
PA4[0-7]
R203 PAT/J3
D202 PAT/MA716-TX
D203 PAT/MA716-TX
D204 PAT/MA716-TX
C213 PAT/UFV
C214 PAT/UFV
C215 PAT/UFV
R208 PAT/J3
R209 PAT/J3
R210 PAT/J3
R215 PAT/J3
R217 PAT/J3
R218 PAT/J3
[P2_28B] V_IN_SEL_SW_L
[P2_28A] A_IN_SEL_SW_L
[P2_28C] EJECT_SW_L
(3) 9P_REM3_H
(3) LOCAL1_H
(3) 9P_REM_H
(3) 9P_REM1_H
(3) 9P_REM2_H
(3) LOCAL2_H
(3) 9P_OUT_CON_H
(3) 9P_REM4_H
RST_L (6)
IOWR_L (2)
IORD_L (2)
PORTA_CS_L (2)
C203 PAT/UFV
R204 PAT/D1H84734A008
R205 D1H84734A008
IC209 PAT/TVHC165FTEL
IC210 PAT/TVHC165FTEL
CMPNT_LED
CMPST_LED
SDI_VLED
ANALOG_LED
AES_EBU_LED
USER_SET_LED
SDI_ALED
SDTI_LED
CH_COND1_LED
CH_COND2_LED
CH_COND3_LED
RESERVE
EJECT_LED
AUTO_OFF_LED
PA9[0-7]
PA7[0-7]
D209 PAT/MA716-TX
R211 PAT/J3
R219 PAT/J3
[P2_29A] U_FRONT_DATA
+5V
C201 C202 C204 C206 C207 C209 C210 C211 C212
IC201 PAT/TC74HC4024AF
IC204 PAT/TC74HC4050AF
IC207 PAT/TVHC165FTEL
IC208 PAT/TVHC165FTEL
IC205 PAT/TC74HC4094AF
IC206 PAT/TC74HC4094AF
IC209 PAT/TVHC165FTEL
IC210 PAT/TVHC165FTEL
IC203 TVHC04FTEL

PAT=PATTERN ONLY
Ref No. 200 Series.

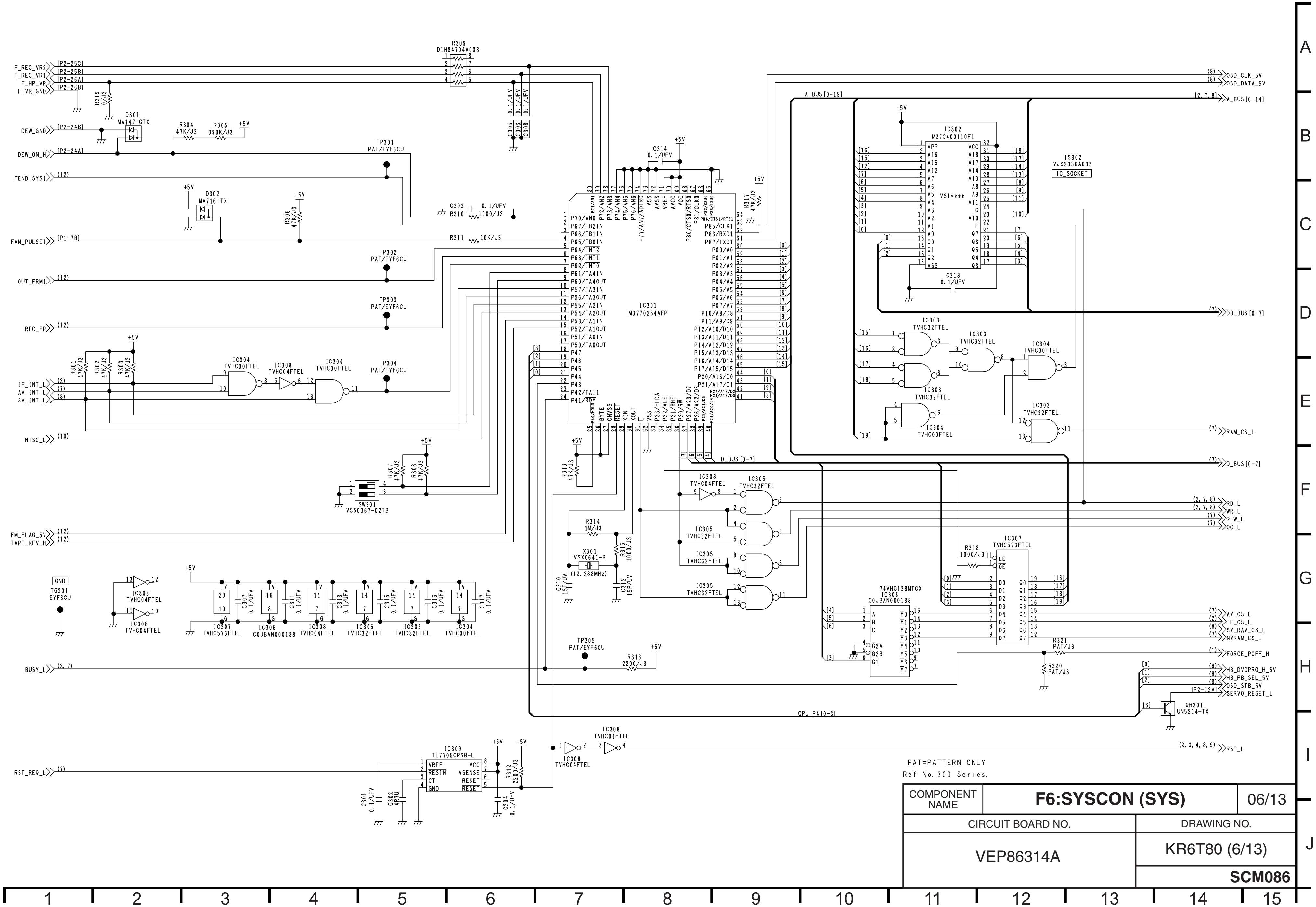
COMPONENT NAME	F6:SYSCON (IF)	04/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (4/13)	
	SCM084	



CTL_PULSE
6.14MHZ
IORD_L
LOGIC1_CS_L
LOGIC2_CS_L
LOGIC3_CS_L
FEND_SYS1
TAPE_REV_H
TOUT
AV_IF_RESERVE
DATA_BUS[0-7]
IOWR_L
LOGIC4_CS_L
OUT_ENA_L
IC252 TVHC74FTEL
IC253 T74HC191AFT1
IC254 T74HC191AFT1
IC255 TVHC574FTEL
IC258 TVHC574FTEL
IC259 TVHT574FTEL
IC256 TC74HC4094AF
IC257 TC74HC4050AF
IC251 TVHC32FTEL
IC203 TVHC04FTEL
IC260 C0JBAA000261 SN74AHC1G08DCKR
IC261 TVHC123FTEL
CTL_BUS[0-7]
DATA_BUS[0-7]
R251 10K/J3
R252 10K/J3
R253 47K/J3
R254 390K/J3
R255 10K/J3
R256 100/J3
R257 100/J3
R258 22K/J3
R259 100/J3
R260 100/J3
R261 PAT/J3
R262 PAT/J3
R263 PAT/J3
R264 PAT/J3
R265 PAT/J3
R266 0/J3
R267 PAT/J3
R268 0/J3
R269 0/J3
R270 PAT/J3
R271 47K/J3
R272 47K/J3
R273 0/J3
R274 47K/J3
C253 0.01
C262 0.1/UFV
C263 0.1/UFV
C264 0.1
C251 C252 C254 C255 C256 C258 C259 C260 C261 0.1/UFV
D252 MA716-TX
D253 MA716-TX
D254 MA716-TX
D255 MA716-TX
D256 MA716-TX
FRT_CLK
FRT_VFDLED
FRT2_TX
FR_VFD_LED
FR_CLK
FRT2_RX
FR_KEY
FR_RST_L
DTR_L
FR_STB
[P2_29C]
[P2_30A]
[P2_29B]
[P2_30C]
[P2_30B]
+5V
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J

PAT=PATTERN ONLY Ref No.250 Series.

COMPONENT NAME	F6:SYSCON (IF)	05/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (5/13)	
	SCM085	


IC301 M37702S4AFP
IC302 M27C400110F1
IS302 VJS2336A032 IC_SOCKET
IC303 TVHC32FTEL
IC304 TVHC00FTEL
IC305 TVHC32FTEL
IC306 C0JBAN000188 74VHC138MTCX
IC307 TVHC573FTEL
IC308 TVHC04FTEL
IC309 TL7705CPSB-L
R309 D1H84704A008
D301 MA147-GTX
D302 MA716-TX
X301 VSX0641-B (12.288MHz)
SW301 VSS0367-02TB
QR301 UN5214-TX
TG301 EYF6CU
F_REC_VR2
F_REC_VR1
F_HP_VR
F_VR_GND
DEW_GND
DEW_ON_H
FEND_SYS1
FAN_PULSE1
OUT_FRM1
REC_FP
IF_INT_L
AV_INT_L
SV_INT_L
NTSC_L
FM_FLAG_5V
TAPE_REV_H
BUSY_L
RST_REQ_L
OSD_CLK_5V
OSD_DATA_5V
A_BUS[0-14]
DB_BUS[0-7]
RAM_CS_L
D_BUS[0-7]
RD_L
WR_L
R-W_L
OC_L
AV_CS_L
IF_CS_L
SV_RAM_CS_L
NVRAM_CS_L
FORCE_POFF_H
HB_DVCPRO_H_5V
HB_PB_SEL_5V
OSD_STB_5V
SERVO_RESET_L
RST_L
CPU P4[0-3]
A
B
C
D
E
F
G
H
I
J
1
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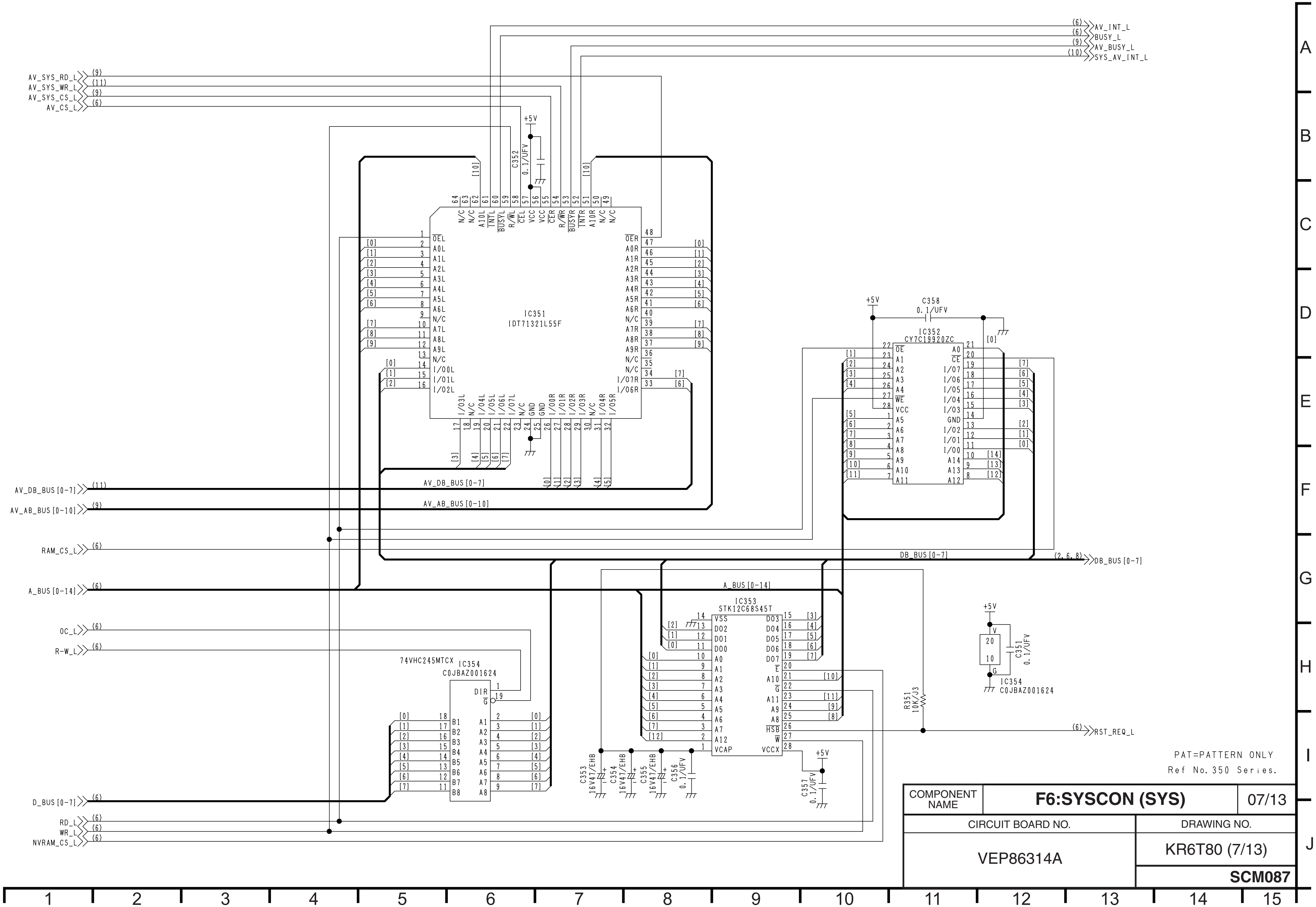
PAT=PATTERN ONLY
Ref No. 300 Series.

COMPONENT NAME	F6:SYSCON (SYS)	06/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (6/13)	
	SCM086	


AV_INT_L
BUSY_L
AV_BUSY_L
SYS_AV_INT_L
AV_SYS_RD_L
AV_SYS_WR_L
AV_SYS_CS_L
AV_CS_L
+5V
C352
0.1/UFV
IC351
IDT71321L55F
AV_DB_BUS[0-7]
AV_AB_BUS[0-10]
RAM_CS_L
DB_BUS[0-7]
A_BUS[0-14]
OC_L
R-W_L
74VHC245MTCX
IC354
C0JBAZ001624
D_BUS[0-7]
RD_L
WR_L
NVRAM_CS_L
IC353
STK12C68S45T
C353
16V47/EHB
C354
16V47/EHB
C355
16V47/EHB
C356
0.1/UFV
C357
0.1/UFV
C358
0.1/UFV
IC352
CY7C199207C
R351
10K/J3
RST_REQ_L
C351
0.1/UFV
IC354
C0JBAZ001624
A
B
C
D
E
F
G
H
I
J
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7
8
9
10
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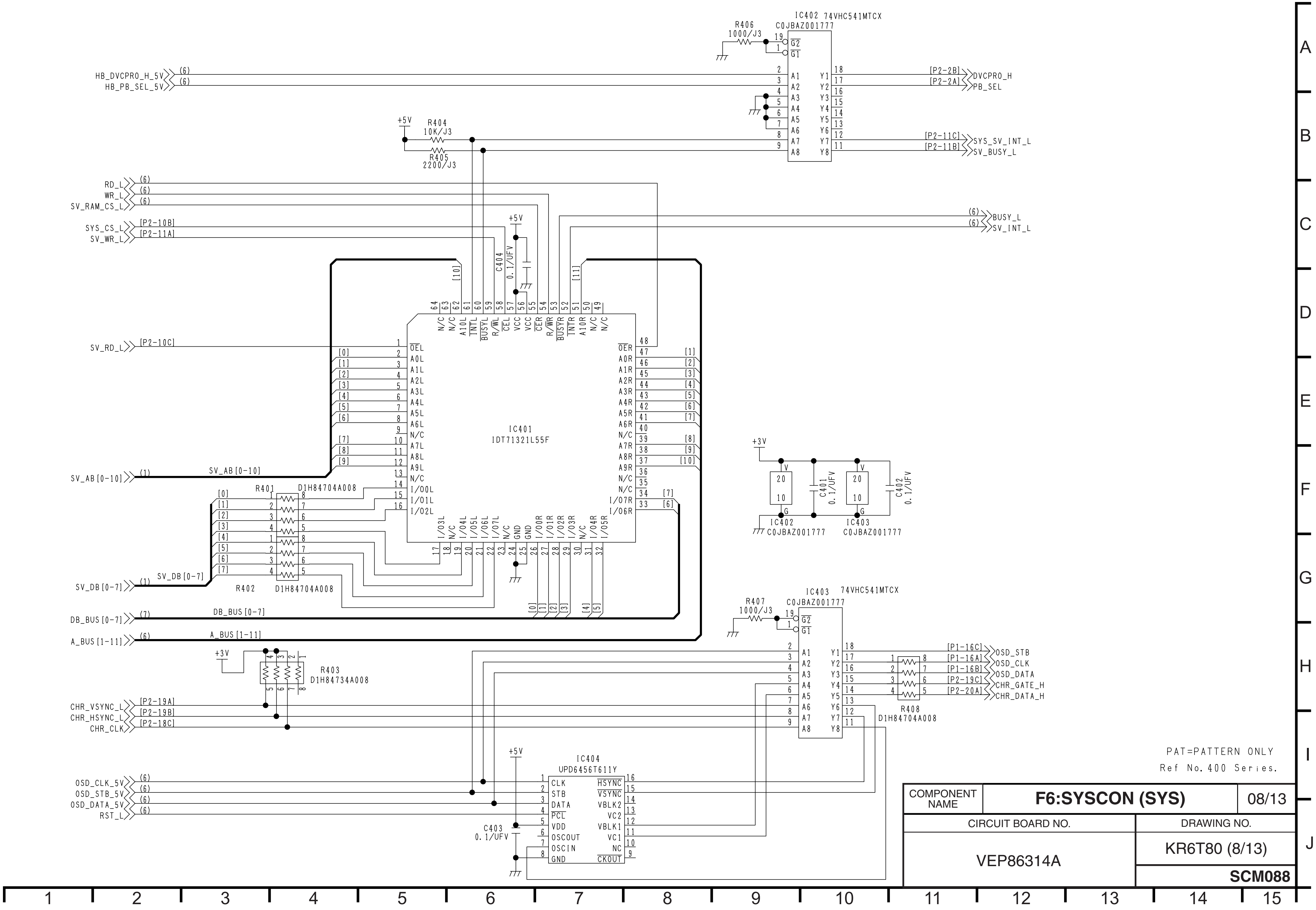
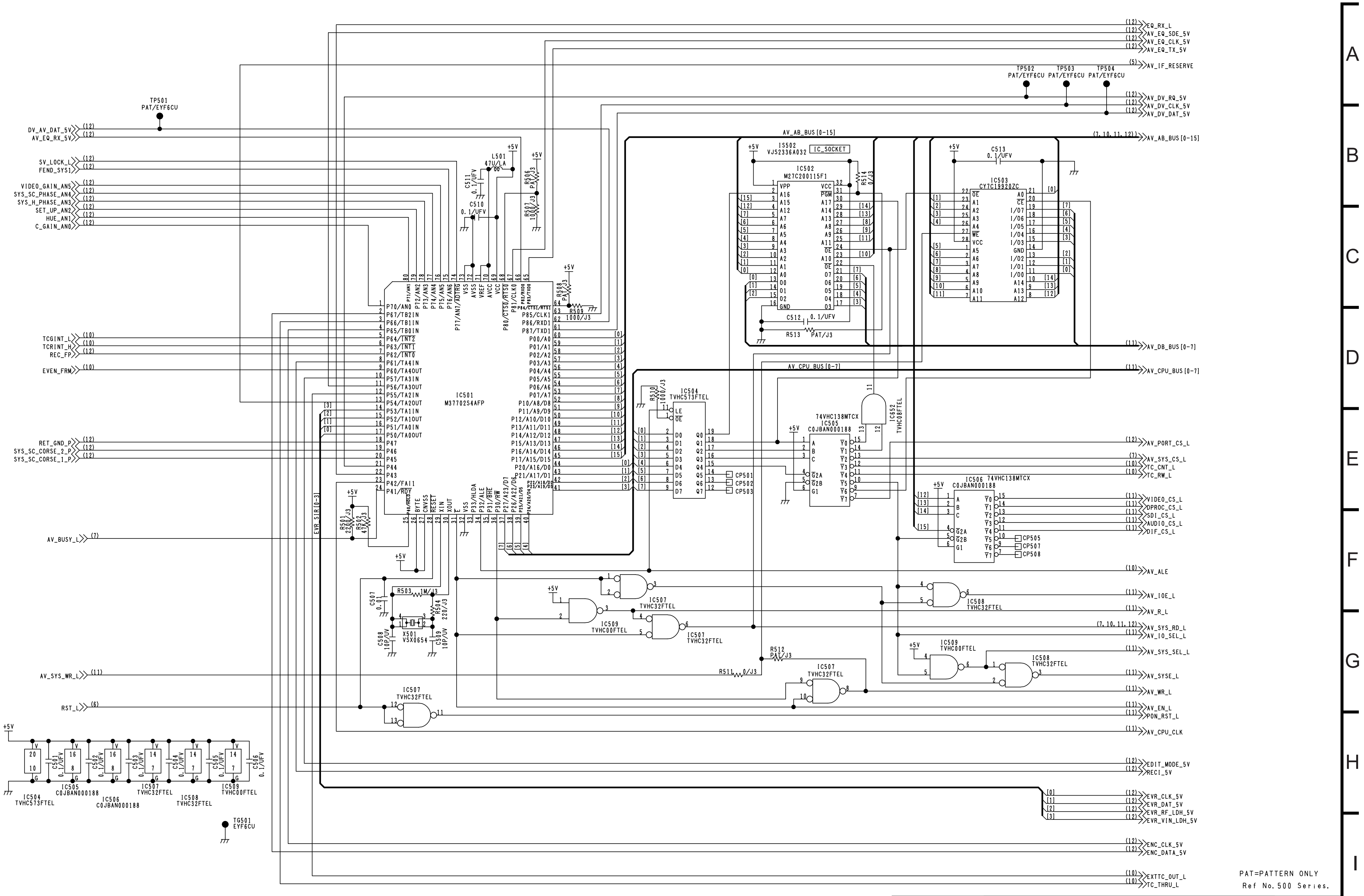
PAT=PATTERN ONLY
Ref No.350 Series.

COMPONENT NAME	F6:SYSCON (SYS)	07/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (7/13)	
	SCM087	

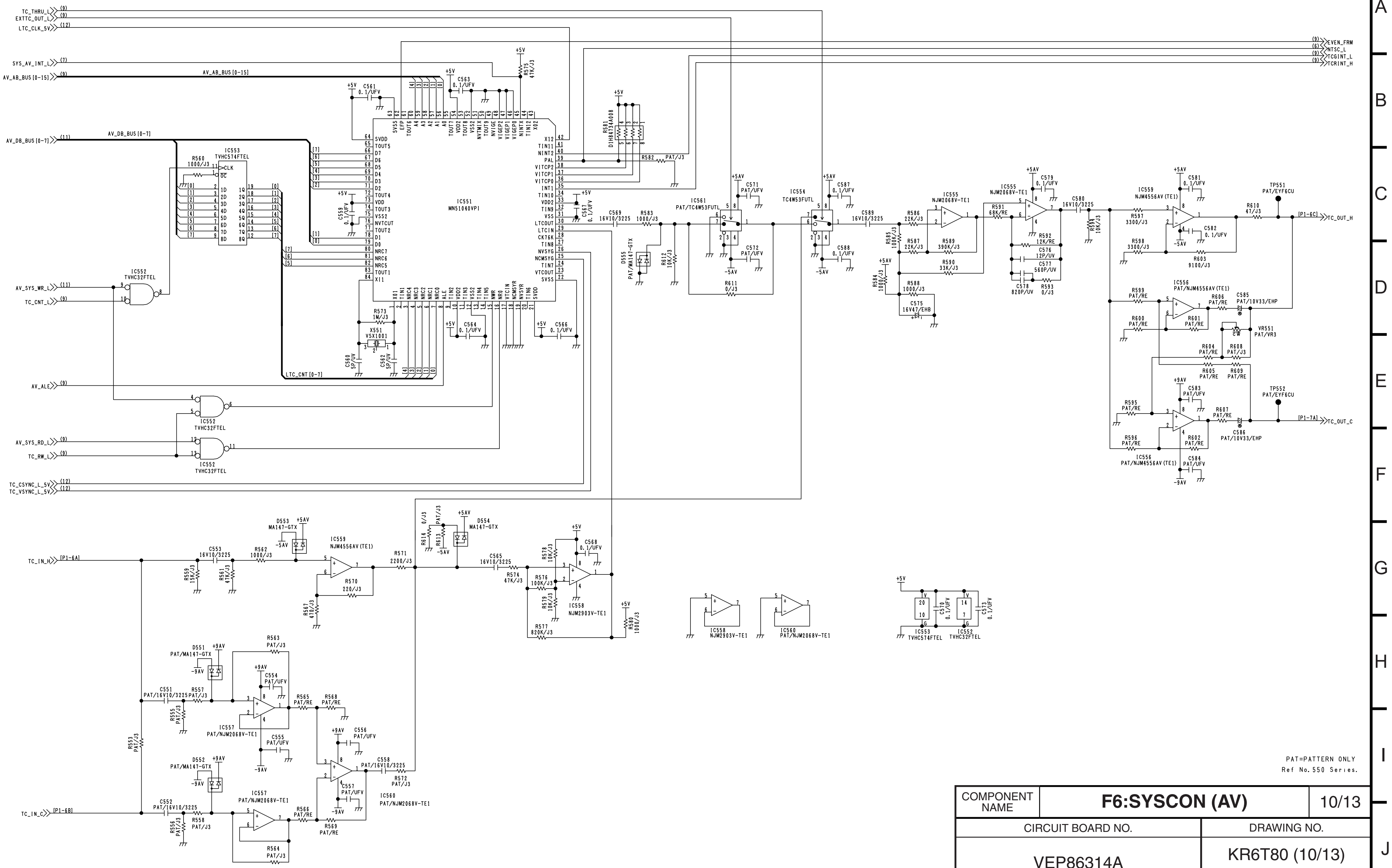

IC402 74VHC541MTCX
C0JBAZ001777
R406 1000/J3
HB_DVCPRO_H_5V (6)
HB_PB_SEL_5V (6)
[P2-2B] DVCPRO_H
[P2-2A] PB_SEL
+5V
R404 10K/J3
R405 2200/J3
[P2-11C] SYS_SV_INT_L
[P2-11B] SV_BUSY_L
RD_L (6)
WR_L (6)
SV_RAM_CS_L (6)
SYS_CS_L [P2-10B]
SV_WR_L [P2-11A]
(6) BUSY_L
(6) SV_INT_L
C404 0.1/UFV
SV_RD_L [P2-10C]
IC401 IDT71321L55F
SV_AB[0-10] (1)
SV_AB[0-10]
R401 D1H84704A008
R402 D1H84704A008
SV_DB[0-7] (1)
SV_DB[0-7]
DB_BUS[0-7] (7)
DB_BUS[0-7]
A_BUS[1-11] (6)
A_BUS[1-11]
+3V
IC402 C0JBAZ001777
IC403 C0JBAZ001777
C401 0.1/UFV
C402 0.1/UFV
IC403 74VHC541MTCX
C0JBAZ001777
R407 1000/J3
[P1-16C] OSD_STB
[P1-16A] OSD_CLK
[P1-16B] OSD_DATA
[P2-19C] CHR_GATE_H
[P2-20A] CHR_DATA_H
R408 D1H84704A008
R403 D1H84734A008
CHR_VSYNC_L [P2-19A]
CHR_HSYNC_L [P2-19B]
CHR_CLK [P2-18C]
IC404 UPD6456T611Y
OSD_CLK_5V (6)
OSD_STB_5V (6)
OSD_DATA_5V (6)
RST_L (6)
C403 0.1/UFV
PAT=PATTERN ONLY
Ref No.400 Series.

COMPONENT NAME	F6:SYSCON (SYS)	08/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (8/13)	
	SCM088	


EQ_RX_L
AV_EQ_SDE_5V
AV_EQ_CLK_5V
AV_EQ_TX_5V
AV_IF_RESERVE
TP502 PAT/EYF6CU
TP503 PAT/EYF6CU
TP504 PAT/EYF6CU
AV_DV_RQ_5V
AV_DV_CLK_5V
AV_DV_DAT_5V
AV_AB_BUS[0-15]
TP501 PAT/EYF6CU
DV_AV_DAT_5V
AV_EQ_RX_5V
SV_LOCK_L
FEND_SYS1
VIDEO_GAIN_AN5
SYS_SC_PHASE_AN4
SYS_H_PHASE_AN3
SET_UP_AN2
HUE_AN1
C_GAIN_AN0
L501 47U/LA
C511 0.1/UFV
C510 0.1/UFV
R506 PAT/J3
R507 1000/J3
R508 PAT/J3
R509 1000/J3
IS502 VJS2336A032 IC_SOCKET
IC502 M27C200115F1
C513 0.1/UFV
IC503 CY7C199ZC
C512 0.1/UFV
R513 PAT/J3
R514 0/J3
AV_DB_BUS[0-7]
AV_CPU_BUS[0-7]
TCGINT_L
TCRINT_H
REC_FP
EVEN_FRM
IC501 M37702S4AFP
IC504 TVHC573FTEL
R510 1000/J3
IC505 74VHC138MTCX C0JBAN000188
IC652 TVHC08FTEL
AV_PORT_CS_L
AV_SYS_CS_L
TC_CNT_L
TC_RW_L
CP501
CP502
CP503
RET_GND_P
SYS_SC_CORSE_2_P
SYS_SC_CORSE_1_P
IC506 74VHC138MTCX C0JBAN000188
VIDEO_CS_L
DPROC_CS_L
SDI_CS_L
AUDIO_CS_L
DIF_CS_L
CP505
CP507
CP508
AV_BUSY_L
EVR_SIR[0-3]
R501 220/J3
R502 47K/J3
AV_ALE
R503 1M/J3
R504 220/J3
C507 0.01
X501 VSX0654
C508 10P/UV
C519 10P/UV
IC507 TVHC32FTEL
IC509 TVHC00FTEL
IC508 TVHC32FTEL
AV_IOE_L
AV_R_L
AV_SYS_RD_L
AV_IO_SEL_L
AV_SYS_SEL_L
R512 PAT/J3
R511 0/J3
AV_SYS_WR_L
AV_SYSE_L
AV_WR_L
RST_L
AV_EN_L
PON_RST_L
AV_CPU_CLK
EDIT_MODE_5V
REC1_5V
EVR_CLK_5V
EVR_DAT_5V
EVR_RF_LDH_5V
EVR_VIN_LDH_5V
ENC_CLK_5V
ENC_DATA_5V
EXTTC_OUT_L
TC_THRU_L
+5V
C501 0.1/UFV
C502 0.1/UFV
C503 0.1/UFV
C504 0.1/UFV
C505 0.1/UFV
C506 0.1/UFV
IC504 TVHC573FTEL
IC505 C0JBAN000188
IC506 C0JBAN000188
IC507 TVHC32FTEL
IC508 TVHC32FTEL
IC509 TVHC00FTEL
TG501 EYF6CU
PAT=PATTERN ONLY
Ref No.500 Series.
A
B
C
D
E
F
G
H
I
J

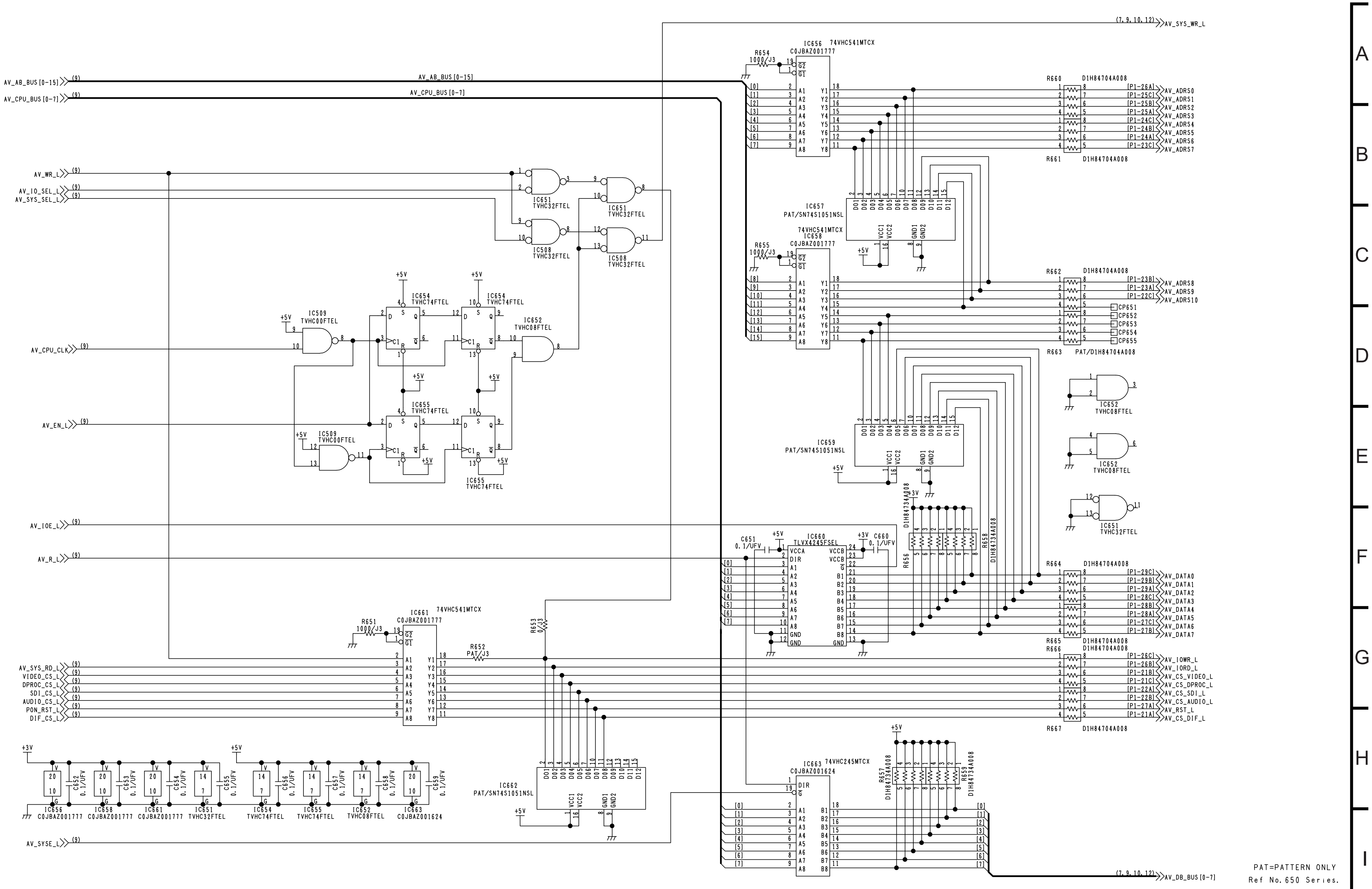
COMPONENT NAME	**F6:SYSCON (AV)**		09/13
CIRCUIT BOARD NO.		DRAWING NO.	
VEP86314A		KR6T80 (9/13)	
		SCM089	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


TC_THRU_L
EXTTC_OUT_L
LTC_CLK_5V
SYS_AV_INT_L
AV_AB_BUS[0-15]
AV_DB_BUS[0-7]
AV_SYS_WR_L
TC_CNT_L
AV_ALE
AV_SYS_RD_L
TC_RW_L
TC_CSYNC_L_5V
TC_VSYNC_L_5V
EVEN_FRM
NTSC_L
TCGINT_L
TCRINT_H
IC551
MN51040VPI
IC553
TVHC574FTEL
IC552
TVHC32FTEL
IC561
PAT/TC4W53FUTL
IC554
TC4W53FUTL
IC555
NJM2068V-TE1
IC559
NJM4556AV(TE1)
IC556
PAT/NJM4556AV(TE1)
IC558
NJM2903V-TE1
IC557
PAT/NJM2068V-TE1
IC560
PAT/NJM2068V-TE1
X551
VSX1001
TP551
PAT/EYF6CU
TP552
PAT/EYF6CU
VR551
PAT/VR3
TC_OUT_H
TC_OUT_C
TC_IN_H
TC_IN_C
LTC_CNT[0-7]
+5V
+5AV
-5AV
+9AV
-9AV

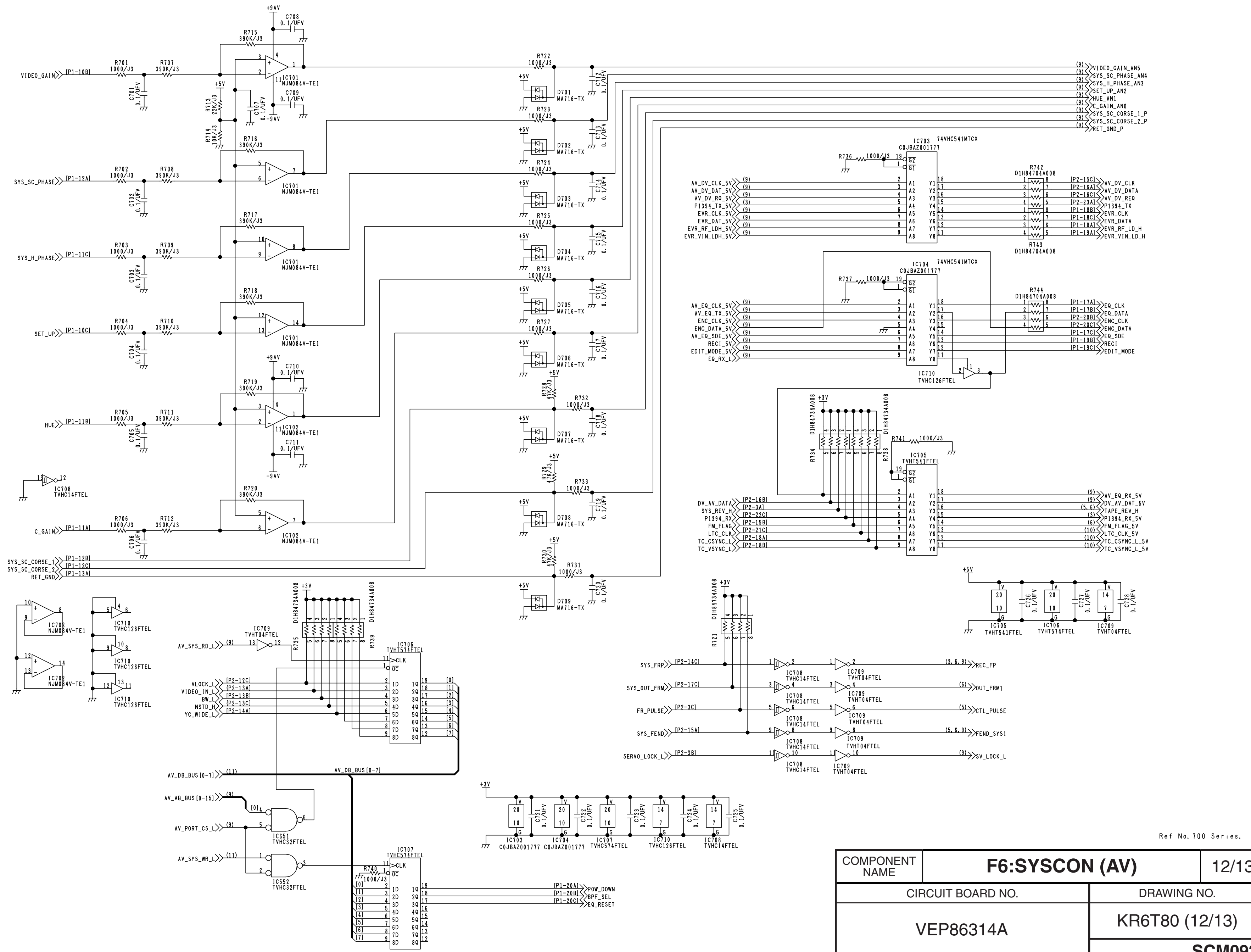
PAT=PATTERN ONLY
Ref No.550 Series.

COMPONENT NAME	F6:SYSCON (AV)	10/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (10/13)	
	SCM090	


AV_AB_BUS[0-15]
AV_CPU_BUS[0-7]
AV_WR_L
AV_IO_SEL_L
AV_SYS_SEL_L
AV_CPU_CLK
AV_EN_L
AV_IOE_L
AV_R_L
AV_SYS_RD_L
VIDEO_CS_L
DPROC_CS_L
SDI_CS_L
AUDIO_CS_L
PON_RST_L
DIF_CS_L
AV_SYSE_L
AV_SYS_WR_L
AV_DB_BUS[0-7]
AV_ADRS0
AV_ADRS1
AV_ADRS2
AV_ADRS3
AV_ADRS4
AV_ADRS5
AV_ADRS6
AV_ADRS7
AV_ADRS8
AV_ADRS9
AV_ADRS10
CP651
CP652
CP653
CP654
CP655
AV_DATA0
AV_DATA1
AV_DATA2
AV_DATA3
AV_DATA4
AV_DATA5
AV_DATA6
AV_DATA7
AV_IOWR_L
AV_IORD_L
AV_CS_VIDEO_L
AV_CS_DPROC_L
AV_CS_SDI_L
AV_CS_AUDIO_L
AV_RST_L
AV_CS_DIF_L
IC651 TVHC32FTEL
IC508 TVHC32FTEL
IC509 TVHC00FTEL
IC652 TVHC08FTEL
IC654 TVHC74FTEL
IC655 TVHC74FTEL
IC656 74VHC541MTCX C0JBAZ001777
IC658 74VHC541MTCX C0JBAZ001777
IC661 74VHC541MTCX C0JBAZ001777
IC657 PAT/SN74S1051NSL
IC659 PAT/SN74S1051NSL
IC662 PAT/SN74S1051NSL
IC660 TLVX4245FSEL
IC663 74VHC245MTCX C0JBAZ001624
R654 1000/J3
R655 1000/J3
R651 1000/J3
R652 PAT/J3
R653 0/J3
R660 D1H84704A008
R661 D1H84704A008
R662 D1H84704A008
R663 PAT/D1H84704A008
R664 D1H84704A008
R665 D1H84704A008
R666 D1H84704A008
R667 D1H84704A008
R656 D1H84734A008
R658 D1H84734A008
R657 D1H84734A008
R659 D1H84734A008
C651 0.1/UFV
C660 0.1/UFV
C652 0.1/UFV
C653 0.1/UFV
C654 0.1/UFV
C655 0.1/UFV
C656 0.1/UFV
C657 0.1/UFV
C658 0.1/UFV
C659 0.1/UFV
+5V
+3V
(9)
(7,9,10,12)

PAT=PATTERN ONLY
Ref No. 650 Series.

COMPONENT NAME	F6:SYSCON (AV)	11/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (11/13)	
	SCM091	



VIDEO_GAIN
SYS_SC_PHASE
SYS_H_PHASE
SET_UP
HUE
C_GAIN
SYS_SC_CORSE_1
SYS_SC_CORSE_2
RET_GND
[P1-10B]
[P1-12A]
[P1-11C]
[P1-10C]
[P1-11B]
[P1-11A]
[P1-12B]
[P1-12C]
[P1-13A]
+9AV
-9AV
+5V
+3V
IC701 NJM084V-TE1
IC702 NJM084V-TE1
R701 1000/J3
R702 1000/J3
R703 1000/J3
R704 1000/J3
R705 1000/J3
R706 1000/J3
R707 390K/J3
R708 390K/J3
R709 390K/J3
R710 390K/J3
R711 390K/J3
R712 390K/J3
R713 22K/J3
R714 10K/J3
R715 390K/J3
R716 390K/J3
R717 390K/J3
R718 390K/J3
R719 390K/J3
R720 390K/J3
R722 1000/J3
R723 1000/J3
R724 1000/J3
R725 1000/J3
R726 1000/J3
R727 1000/J3
R728 47K/J3
R729 47K/J3
R730 47K/J3
R731 1000/J3
R732 1000/J3
R733 1000/J3
C701 0.1/UFV
C702 0.1/UFV
C703 0.1/UFV
C704 0.1/UFV
C705 0.1/UFV
C706 0.1/UFV
C707 0.1/UFV
C708 0.1/UFV
C709 0.1/UFV
C710 0.1/UFV
C711 0.1/UFV
C712 0.1/UFV
C713 0.1/UFV
C714 0.1/UFV
C715 0.1/UFV
C716 0.1/UFV
C717 0.1/UFV
C718 0.1/UFV
C719 0.1/UFV
C720 0.1/UFV
D701 MA716-TX
D702 MA716-TX
D703 MA716-TX
D704 MA716-TX
D705 MA716-TX
D706 MA716-TX
D707 MA716-TX
D708 MA716-TX
D709 MA716-TX
(9) VIDEO_GAIN_AN5
(9) SYS_SC_PHASE_AN4
(9) SYS_H_PHASE_AN3
(9) SET_UP_AN2
(9) HUE_AN1
(9) C_GAIN_AN0
(9) SYS_SC_CORSE_1_P
(9) SYS_SC_CORSE_2_P
(9) RET_GND_P
IC703 74VHC541MTCX C0JBAZ001777
R736 1000/J3
AV_DV_CLK_5V
AV_DV_DAT_5V
AV_DV_RQ_5V
P1394_TX_5V
EVR_CLK_5V
EVR_DAT_5V
EVR_RF_LDH_5V
EVR_VIN_LDH_5V
R742 D1H84704A008
R743 D1H84704A008
[P2-15C] AV_DV_CLK
[P2-16A] AV_DV_DATA
[P2-16C] AV_DV_REQ
[P2-23A] P1394_TX
[P1-18B] EVR_CLK
[P1-18C] EVR_DATA
[P1-18A] EVR_RF_LD_H
[P1-19A] EVR_VIN_LD_H
IC704 74VHC541MTCX C0JBAZ001777
R737 1000/J3
AV_EQ_CLK_5V
AV_EQ_TX_5V
ENC_CLK_5V
ENC_DATA_5V
AV_EQ_SDE_5V
RECI_5V
EDIT_MODE_5V
EQ_RX_L
R744 D1H84704A008
[P1-17A] EQ_CLK
[P1-17B] EQ_DATA
[P1-20B] ENC_CLK
[P1-20C] ENC_DATA
[P1-17C] EQ_SDE
[P1-19B] RECI
[P1-19C] EDIT_MODE
IC710 TVHC126FTEL
R734 D1H84734A008
R738 D1H84734A008
R741 1000/J3
IC705 TVHT541FTEL
DV_AV_DATA [P2-16B]
SYS_REV_H [P2-3A]
P1394_RX [P2-22C]
FM_FLAG [P2-15B]
LTC_CLK [P2-21C]
TC_CSYNC_L [P2-18A]
TC_VSYNC_L [P2-18B]
(9) AV_EQ_RX_5V
(9) DV_AV_DAT_5V
(5, 6) TAPE_REV_H
(3) P1394_RX_5V
(6) FM_FLAG_5V
(10) LTC_CLK_5V
(10) TC_CSYNC_L_5V
(10) TC_VSYNC_L_5V
IC708 TVHC14FTEL
IC709 TVHT04FTEL
IC710 TVHC126FTEL
AV_SYS_RD_L (9)
R735 D1H84734A008
R739 D1H84734A008
IC706 TVHC574FTEL
VLOCK_L [P2-12C]
VIDEO_IN_L [P2-13A]
BW_L [P2-13B]
NSTD_H [P2-13C]
YC_WIDE_L [P2-14A]
AV_DB_BUS[0-7] (11)
AV_DB_BUS[0-7]
AV_AB_BUS[0-15] (9)
AV_PORT_CS_L (9)
AV_SYS_WR_L (11)
IC651 TVHC32FTEL
IC552 TVHC32FTEL
IC707 TVHC574FTEL
R740 1000/J3
[P1-20A] POW_DOWN
[P1-20B] BPF_SEL
[P1-20C] EQ_RESET
R721 D1H84734A008
SYS_FRP [P2-14C]
SYS_OUT_FRM [P2-17C]
FR_PULSE [P2-3C]
SYS_FEND [P2-15A]
SERVO_LOCK_L [P2-3B]
(3, 6, 9) REC_FP
(6) OUT_FRM1
(5) CTL_PULSE
(5, 6, 9) FEND_SYS1
(9) SV_LOCK_L
C721 0.1/UFV
C722 0.1/UFV
C723 0.1/UFV
C724 0.1/UFV
C725 0.1/UFV
C726 0.1/UFV
C727 0.1/UFV
C728 0.1/UFV
IC703 C0JBAZ001777
IC704 C0JBAZ001777
IC707 TVHC574FTEL
IC710 TVHC126FTEL
IC708 TVHC14FTEL
IC705 TVHT541FTEL
IC706 TVHT574FTEL
IC709 TVHT04FTEL
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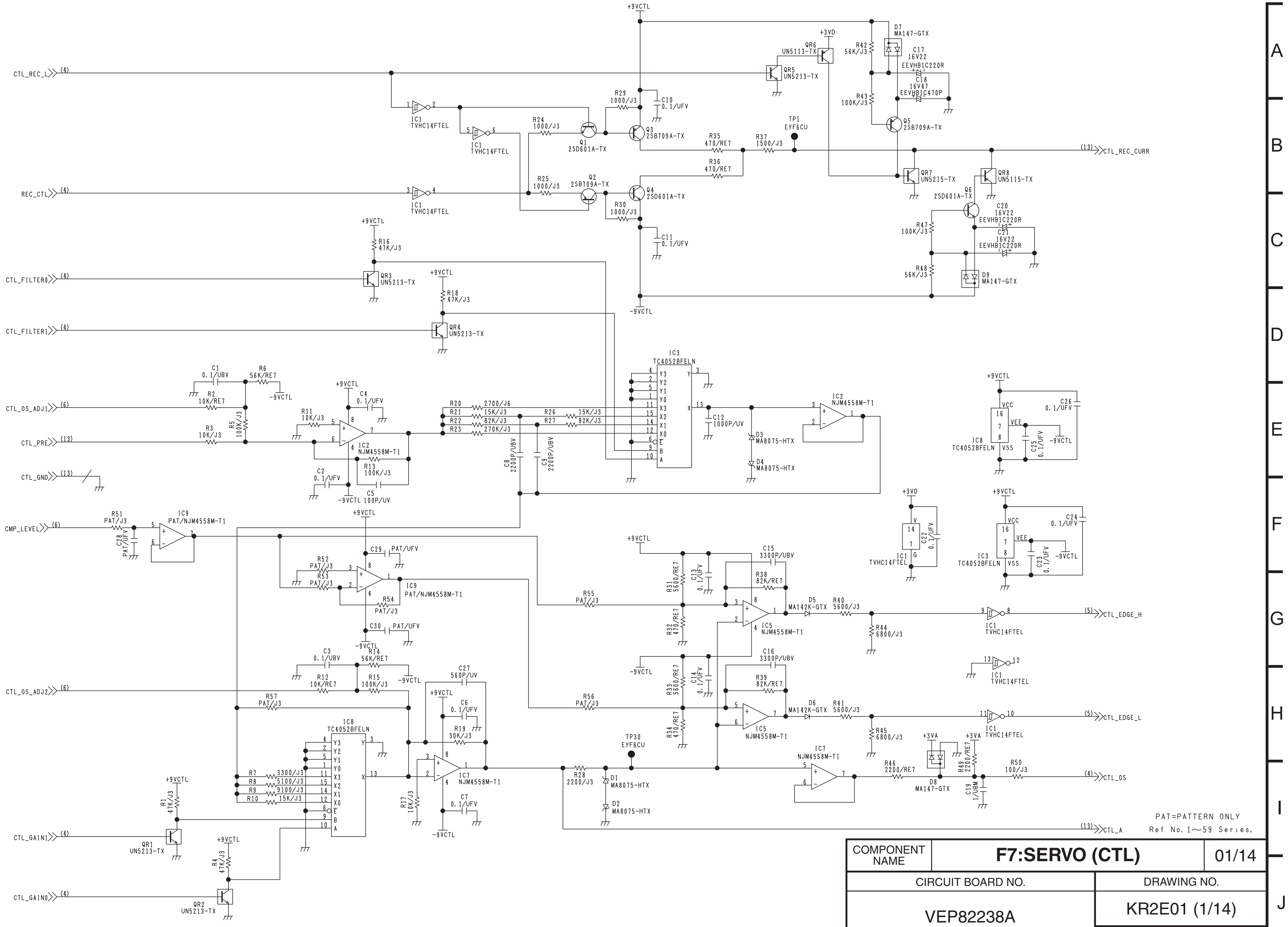
Ref No. 700 Series.

COMPONENT NAME	F6:SYSCON (AV)	12/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86314A	KR6T80 (12/13)	
	SCM092	

	AJ-D455P		
IC104 (M27C100115F1)	VSI3557A		
IC302 (M27C400110F1)	VSI3561A		
IC502 (M27C200115F)	VSI3563B		

COMPONENT NAME	**SYSCON**	13/13
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85314A	KR6T80 (13/13)	
	SCM093	


+9VCTL
-9VCTL
+3VD
+3VA
CTL_REC_L (4)
REC_CTL (4)
CTL_FILTER0 (4)
CTL_FILTER1 (4)
CTL_OS_ADJ1 (6)
CTL_PRE (13)
CTL_GND (13)
CMP_LEVEL (6)
CTL_OS_ADJ2 (6)
CTL_GAIN1 (4)
CTL_GAIN0 (4)
(13) CTL_REC_CURR
(5) CTL_EDGE_H
(5) CTL_EDGE_L
(4) CTL_OS
(13) CTL_A
IC1 TVHC14FTEL
IC2 NJM4558M-T1
IC3 TC4052BFELN
IC5 NJM4558M-T1
IC7 NJM4558M-T1
IC8 TC4052BFELN
IC9 PAT/NJM4558M-T1
Q1 2SD601A-TX
Q2 2SB709A-TX
Q3 2SB709A-TX
Q4 2SD601A-TX
Q5 2SB709A-TX
Q6 2SD601A-TX
QR1 UN5213-TX
QR2 UN5213-TX
QR3 UN5213-TX
QR4 UN5213-TX
QR5 UN5213-TX
QR6 UN5113-TX
QR7 UN5215-TX
QR8 UN5115-TX
D1 MA8075-HTX
D2 MA8075-HTX
D3 MA8075-HTX
D4 MA8075-HTX
D5 MA142K-GTX
D6 MA142K-GTX
D7 MA147-GTX
D8 MA147-GTX
D9 MA147-GTX
TP1 EYF6CU
TP30 EYF6CU
R1 47K/J3
R2 10K/RE7
R3 10K/J3
R4 47K/J3
R5 100K/J3
R6 56K/RE7
R7 3300/J3
R8 5100/J3
R9 9100/J3
R10 15K/J3
R11 10K/J3
R12 10K/RE7
R13 100K/J3
R14 56K/RE7
R15 100K/J3
R16 47K/J3
R17 10K/J3
R18 47K/J3
R19 30K/J3
R20 2700/J6
R21 15K/J3
R22 82K/J3
R23 270K/J3
R24 1000/J3
R25 1000/J3
R26 15K/J3
R27 82K/J3
R28 2200/J3
R29 1000/J3
R30 1000/J3
R31 5600/RE7
R32 470/RE7
R33 5600/RE7
R34 470/RE7
R35 470/RE7
R36 470/RE7
R37 1500/J3
R38 82K/RE7
R39 82K/RE7
R40 5600/J3
R41 5600/J3
R42 56K/J3
R43 100K/J3
R44 6800/J3
R45 6800/J3
R46 2200/RE7
R47 100K/J3
R48 56K/J3
R49 2200/RE7
R50 100/J3
R51 PAT/J3
R52 PAT/J3
R53 PAT/J3
R54 PAT/J3
R55 PAT/J3
R56 PAT/J3
R57 PAT/J3
C1 0.1/UBV
C2 0.1/UFV
C3 0.1/UBV
C4 0.1/UFV
C5 100P/UV
C6 0.1/UFV
C7 0.1/UFV
C8 2200P/UBV
C9 2200P/UBV
C10 0.1/UFV
C11 0.1/UFV
C12 1000P/UV
C13 0.1/UFV
C14 0.1/UFV
C15 3300P/UBV
C16 3300P/UBV
C17 16V22 EEVHB1C220R
C18 16V47 EEVHB1C470P
C19 1/UBM
C20 16V22 EEVHB1C220R
C21 16V22 EEVHB1C220R
C22 0.1/UFV
C23 0.1/UFV
C24 0.1/UFV
C25 0.1/UFV
C26 0.1/UFV
C27 560P/UV
C28 PAT/UFV
C29 PAT/UFV
C30 PAT/UFV
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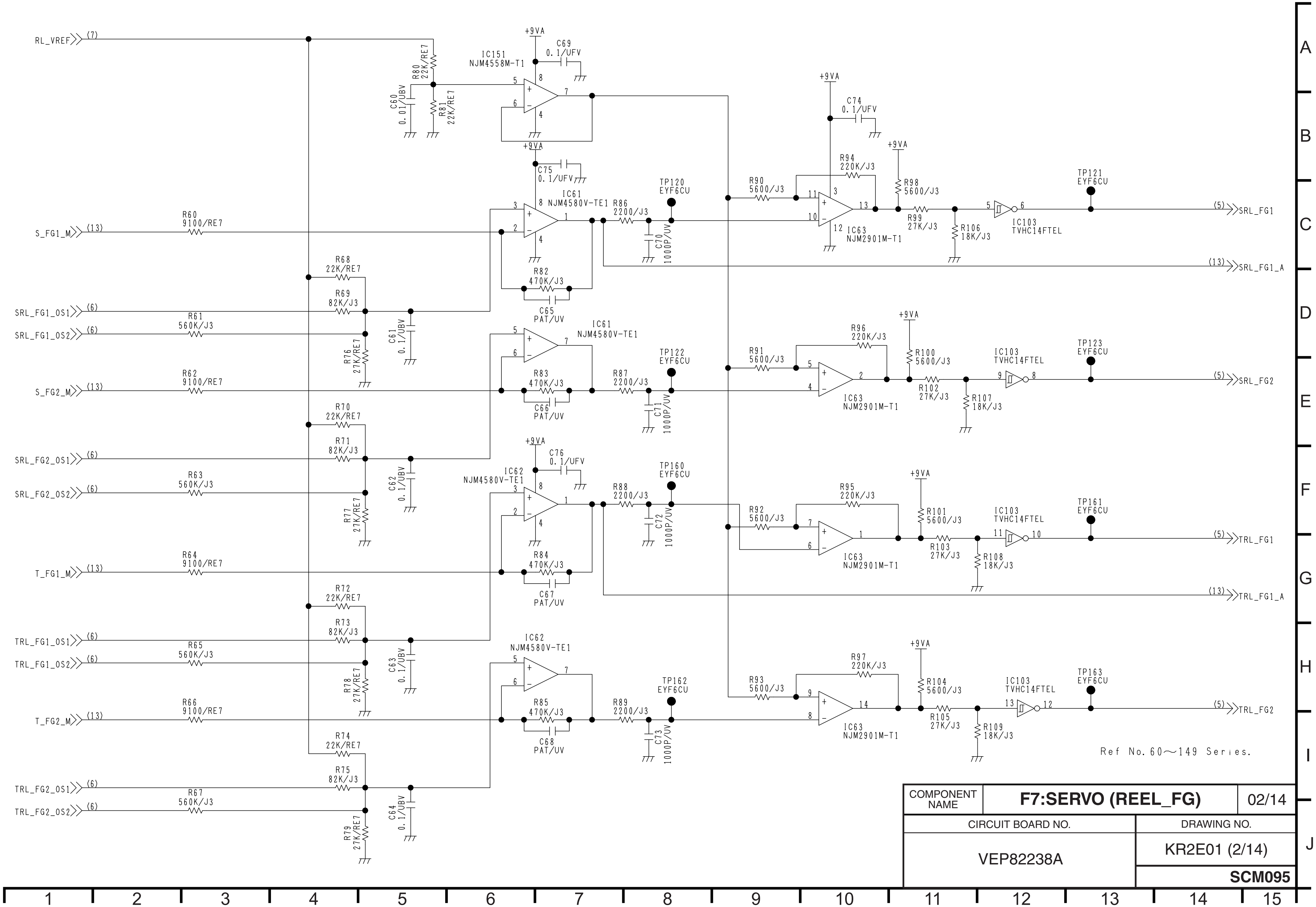
PAT=PATTERN ONLY
Ref No. 1〜59 Series.

COMPONENT NAME	F7:SERVO (CTL)	01/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (1/14)	
	SCM094	


RL_VREF
(7)
S_FG1_M
(13)
SRL_FG1_OS1
(6)
SRL_FG1_OS2
(6)
S_FG2_M
(13)
SRL_FG2_OS1
(6)
SRL_FG2_OS2
(6)
T_FG1_M
(13)
TRL_FG1_OS1
(6)
TRL_FG1_OS2
(6)
T_FG2_M
(13)
TRL_FG2_OS1
(6)
TRL_FG2_OS2
(6)
R80 22K/RE7
R81 22K/RE7
C60 0.01/UBV
IC151 NJM4558M-T1
+9VA
C69 0.1/UFV
C75 0.1/UFV
IC61 NJM4580V-TE1
R60 9100/RE7
R61 560K/J3
R62 9100/RE7
R63 560K/J3
R64 9100/RE7
R65 560K/J3
R66 9100/RE7
R67 560K/J3
R68 22K/RE7
R69 82K/J3
R70 22K/RE7
R71 82K/J3
R72 22K/RE7
R73 82K/J3
R74 22K/RE7
R75 82K/J3
R76 27K/RE7
R77 27K/RE7
R78 27K/RE7
R79 27K/RE7
C61 0.1/UBV
C62 0.1/UBV
C63 0.1/UBV
C64 0.1/UBV
R82 470K/J3
C65 PAT/UV
R83 470K/J3
C66 PAT/UV
IC62 NJM4580V-TE1
C76 0.1/UFV
R84 470K/J3
C67 PAT/UV
R85 470K/J3
C68 PAT/UV
R86 2200/J3
R87 2200/J3
R88 2200/J3
R89 2200/J3
C70 1000P/UV
C71 1000P/UV
C72 1000P/UV
C73 1000P/UV
TP120 EYF6CU
TP122 EYF6CU
TP160 EYF6CU
TP162 EYF6CU
C74 0.1/UFV
R90 5600/J3
R91 5600/J3
R92 5600/J3
R93 5600/J3
R94 220K/J3
R96 220K/J3
R95 220K/J3
R97 220K/J3
IC63 NJM2901M-T1
R98 5600/J3
R100 5600/J3
R101 5600/J3
R104 5600/J3
R99 27K/J3
R102 27K/J3
R103 27K/J3
R105 27K/J3
R106 18K/J3
R107 18K/J3
R108 18K/J3
R109 18K/J3
IC103 TVHC14FTEL
TP121 EYF6CU
TP123 EYF6CU
TP161 EYF6CU
TP163 EYF6CU
(5) SRL_FG1
(13) SRL_FG1_A
(5) SRL_FG2
(5) TRL_FG1
(13) TRL_FG1_A
(5) TRL_FG2
Ref No.60～149 Series.
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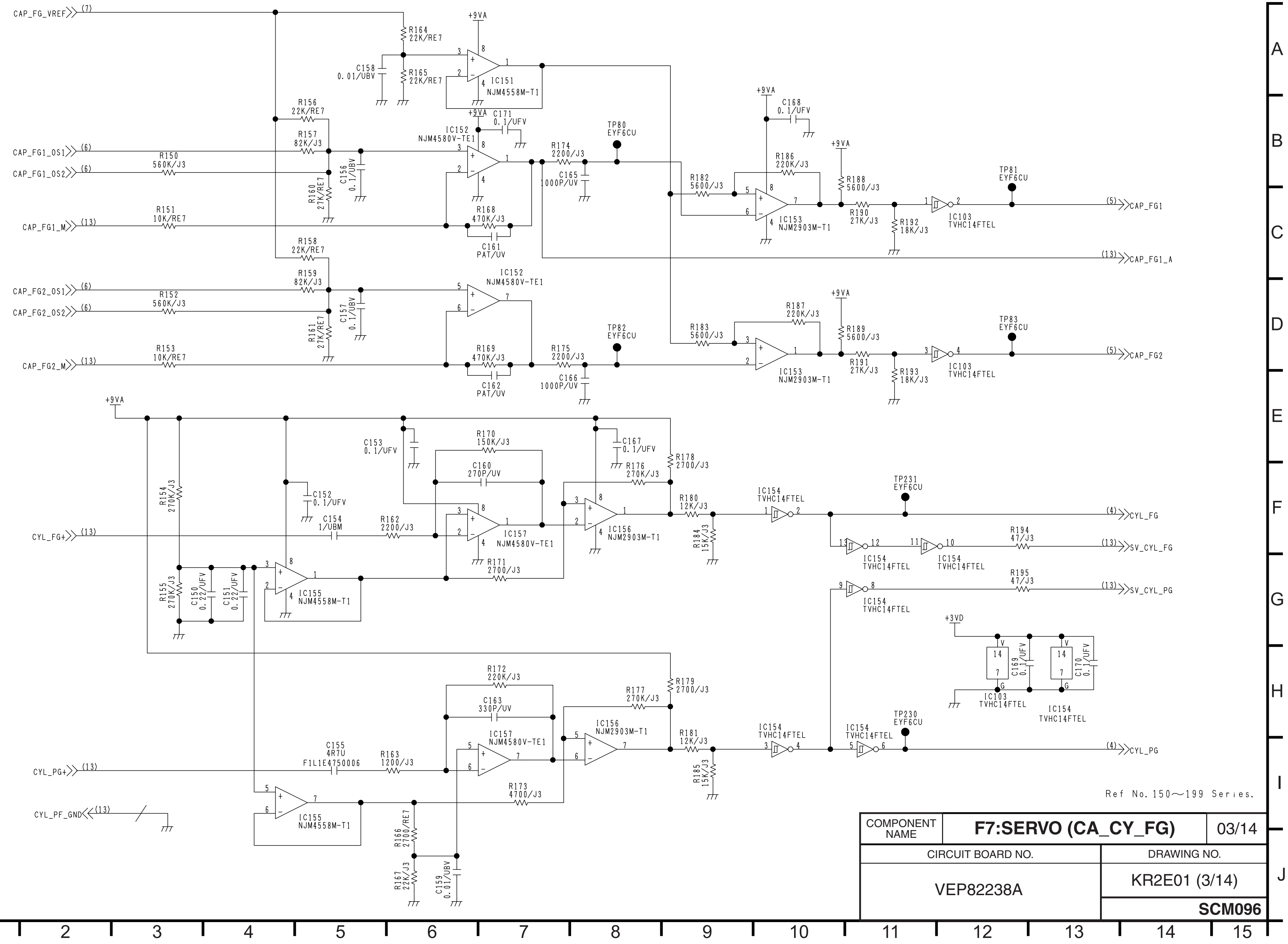
COMPONENT NAME	F7:SERVO (REEL_FG)	02/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238A		KR2E01 (2/14)
		SCM095


CAP_FG_VREF (7)
R164 22K/RE7
R165 22K/RE7
C158 0.01/UBV
+9VA
IC151 NJM4558M-T1
R156 22K/RE7
R157 82K/J3
+9VA
C171 0.1/UFV
IC152 NJM4580V-TE1
CAP_FG1_OS1 (6)
CAP_FG1_OS2 (6)
R150 560K/J3
R160 27K/RE7
C156 0.1/UBV
CAP_FG1_M (13)
R151 10K/RE7
R168 470K/J3
C161 PAT/UV
R174 2200/J3
C165 1000P/UV
TP80 EYF6CU
R158 22K/RE7
R159 82K/J3
IC152 NJM4580V-TE1
CAP_FG2_OS1 (6)
CAP_FG2_OS2 (6)
R152 560K/J3
R161 27K/RE7
C157 0.1/UBV
CAP_FG2_M (13)
R153 10K/RE7
R169 470K/J3
C162 PAT/UV
R175 2200/J3
C166 1000P/UV
TP82 EYF6CU
+9VA
C168 0.1/UFV
R186 220K/J3
R182 5600/J3
IC153 NJM2903M-T1
+9VA
R188 5600/J3
R190 27K/J3
R192 18K/J3
IC103 TVHC14FTEL
TP81 EYF6CU
(5) CAP_FG1
(13) CAP_FG1_A
R187 220K/J3
R183 5600/J3
IC153 NJM2903M-T1
+9VA
R189 5600/J3
R191 27K/J3
R193 18K/J3
IC103 TVHC14FTEL
TP83 EYF6CU
(5) CAP_FG2
+9VA
R154 270K/J3
C152 0.1/UFV
C153 0.1/UFV
R170 150K/J3
C160 270P/UV
C167 0.1/UFV
R176 270K/J3
R178 2700/J3
CYL_FG+ (13)
C154 1/UBM
R162 2200/J3
IC157 NJM4580V-TE1
IC156 NJM2903M-T1
R171 2700/J3
R180 12K/J3
R184 15K/J3
IC154 TVHC14FTEL
TP231 EYF6CU
(4) CYL_FG
IC154 TVHC14FTEL
IC154 TVHC14FTEL
R194 47/J3
(13) SV_CYL_FG
R155 270K/J3
C150 0.22/UFV
C151 0.22/UFV
IC155 NJM4558M-T1
IC154 TVHC14FTEL
R195 47/J3
(13) SV_CYL_PG
+3VD
V 14 7 G
C169 0.1/UFV
V 14 7 G
C170 0.1/UFV
IC103 TVHC14FTEL
IC154 TVHC14FTEL
R179 2700/J3
R172 220K/J3
C163 330P/UV
R177 270K/J3
IC156 NJM2903M-T1
IC157 NJM4580V-TE1
CYL_PG+ (13)
C155 4R7U F1L1E4750006
R163 1200/J3
R181 12K/J3
R185 15K/J3
IC154 TVHC14FTEL
IC154 TVHC14FTEL
TP230 EYF6CU
(4) CYL_PG
R173 4700/J3
IC155 NJM4558M-T1
CYL_PF_GND (13)
R166 2700/RE7
R167 22K/J3
C159 0.01/UBV
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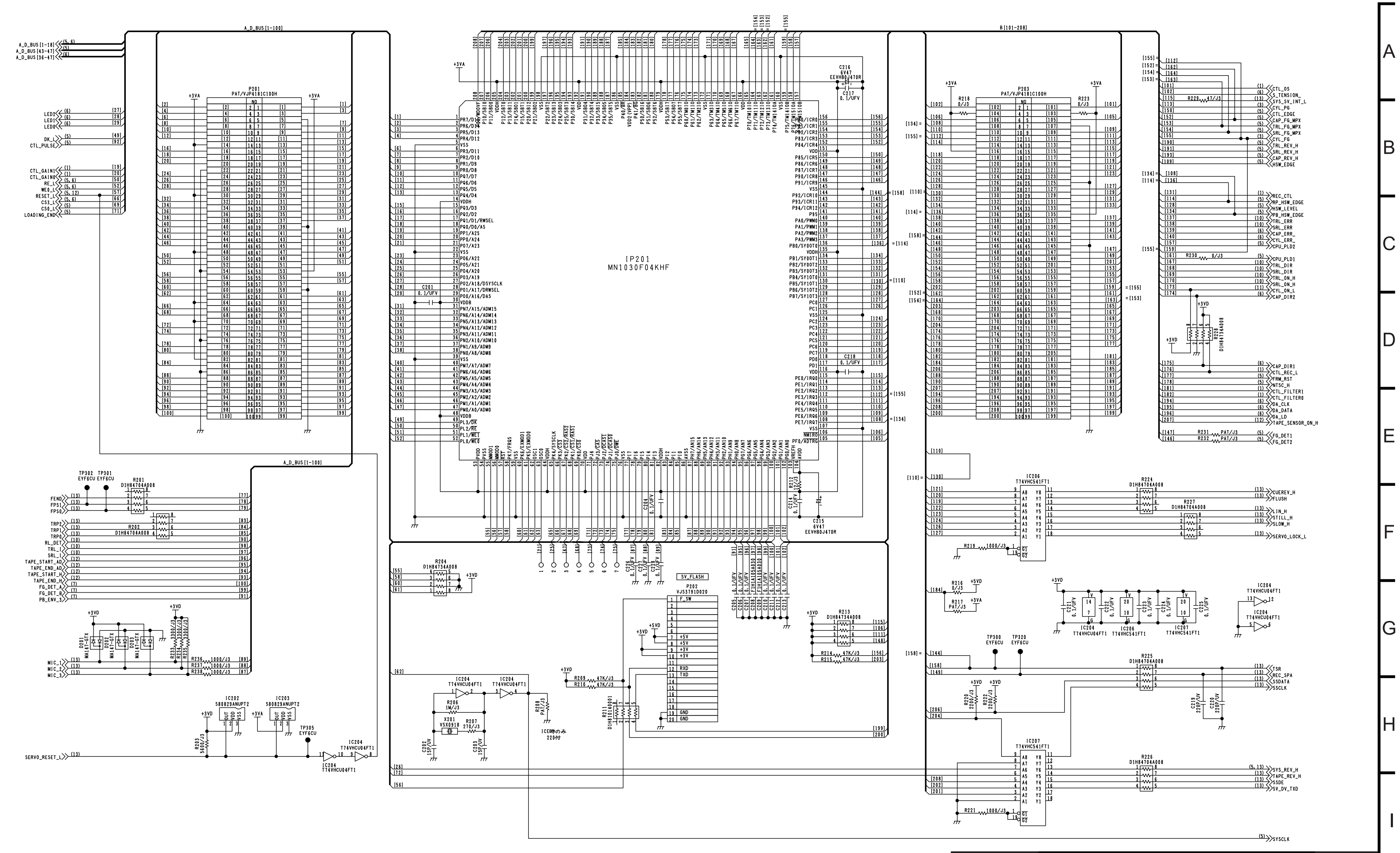
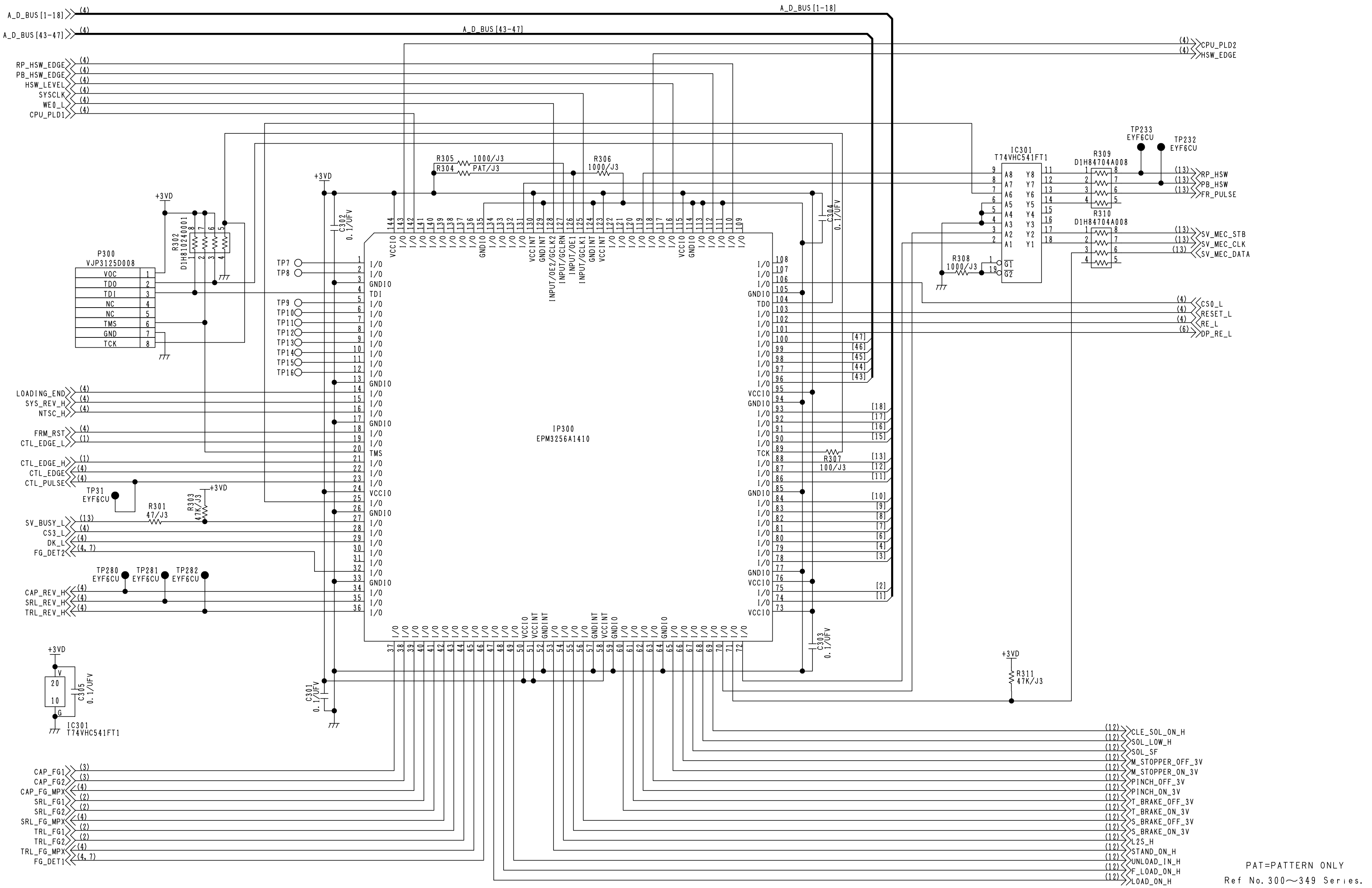
Ref No. 150～199 Series.

COMPONENT NAME	F7:SERVO (CA_CY_FG)	03/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (3/14)	
	SCM096	


A_D_BUS[1-18]
A_D_BUS[43-47]
A_D_BUS[36-47]
A_D_BUS[1-100]
B[101-208]
P201
PAT/VJP4181C100H
P203
PAT/VJP4181C100H
IP201
MN1030F04KHF
LED2
LED1
LED0
DK_L
CTL_PULSE
CTL_GAIN1
CTL_GAIN0
RE_L
WE0_L
RESET_L
CS3_L
CS0_L
LOADING_END
TP302 EYF6CU
TP301 EYF6CU
R201 D1H84704A008
R202 D1H84704A008
FENO
FPS1
FPS0
TRP2
TRP1
TRP0
RL_DET
TRL_I
SRL_I
TAPE_START_AD
TAPE_END_AD
TAPE_START_H
TAPE_END_H
FG_DET_A
FG_DET_B
PB_ENV_S
D201 MA147-GTX
D202 MA147-GTX
MIC_1
MIC_2
MIC_3
R236 1000/J3
R237 1000/J3
R238 1000/J3
IC202 S80829ANUPT2
IC203 S80829ANUPT2
R203 5600/J3
TP305 EYF6CU
SERVO_RESET_L
IC204 T74VHCU04FT1
R204 D1H84734A008
R205 1M/J3
X201 VSX0918
R207 270/J3
C202 15P/UV
C203 15P/UV
R208 PAT/J3
ICE時のみ 220付
SV_FLASH
P202 VJS3791D020
F_SW
RXD
TXD
GND
R209 47K/J3
R210 47K/J3
R211 D1H01104001
R213 D1H84734A008
R214 47K/J3
R215 47K/J3
C201 0.1/UFV
C204 0.1/UFV
C214 0.1/UFV
C215 6V47 EEVHB0J470R
C216 6V47 EEVHB0J470R
C217 0.1/UFV
C218 0.1/UFV
R218 0/J3
R223 0/J3
R229 47/J3
R230 0/J3
R228 D1H84734A008
R231 PAT/J3
R232 PAT/J3
CTL_OS
S_TENSION_
SYS_SV_INT_L
CYL_PG
CTL_EDGE
CAP_FG_MPX
TRL_FG_MPX
SRL_FG_MPX
CYL_FG
TRL_REV_H
SRL_REV_H
CAP_REV_H
HSW_EDGE
REC_CTL
RP_HSW_EDGE
HSW_LEVEL
PB_HSW_EDGE
TRL_ERR
SRL_ERR
CAP_ERR_
CYL_ERR_
CPU_PLD2
CPU_PLD1
TRL_DIR
SRL_DIR
TRL_ON_H
SRL_ON_H
CYL_ON_L
CAP_DIR2
CAP_DIR1
CTL_REC_L
FRM_RST
NTSC_H
CTL_FILTER1
CTL_FILTER0
DA_CLK
DA_DATA
DA_LD
TAPE_SENSOR_ON_H
FG_DET1
FG_DET2
IC206 T74VHC541FT1
R224 D1H84704A008
R227 D1H84704A008
CUEREV_H
FLUSH
LIN_H
STILL_H
SLOW_H
SERVO_LOCK_L
R219 1000/J3
R216 0/J3
R217 PAT/J3
C221 0.1/UFV
C222 0.1/UFV
C223 0.1/UFV
C224 0.1/UFV
C225 0.1/UFV
IC207 T74VHC541FT1
TP300 EYF6CU
TP320 EYF6CU
R225 D1H84704A008
TSR
REC_SPA
SSDATA
SSCLK
R220 2200/J3
R222 2200/J3
C219 220P/UV
C220 220P/UV
R226 D1H84704A008
SYS_REV_H
TAPE_REV_H
SSDE
SV_DV_TXD
R221 1000/J3
SYSCLK
+3VA
+3VD
+5VD
+3VA

PAT=PATTERN ONLY
Ref No. 200～299 Series.

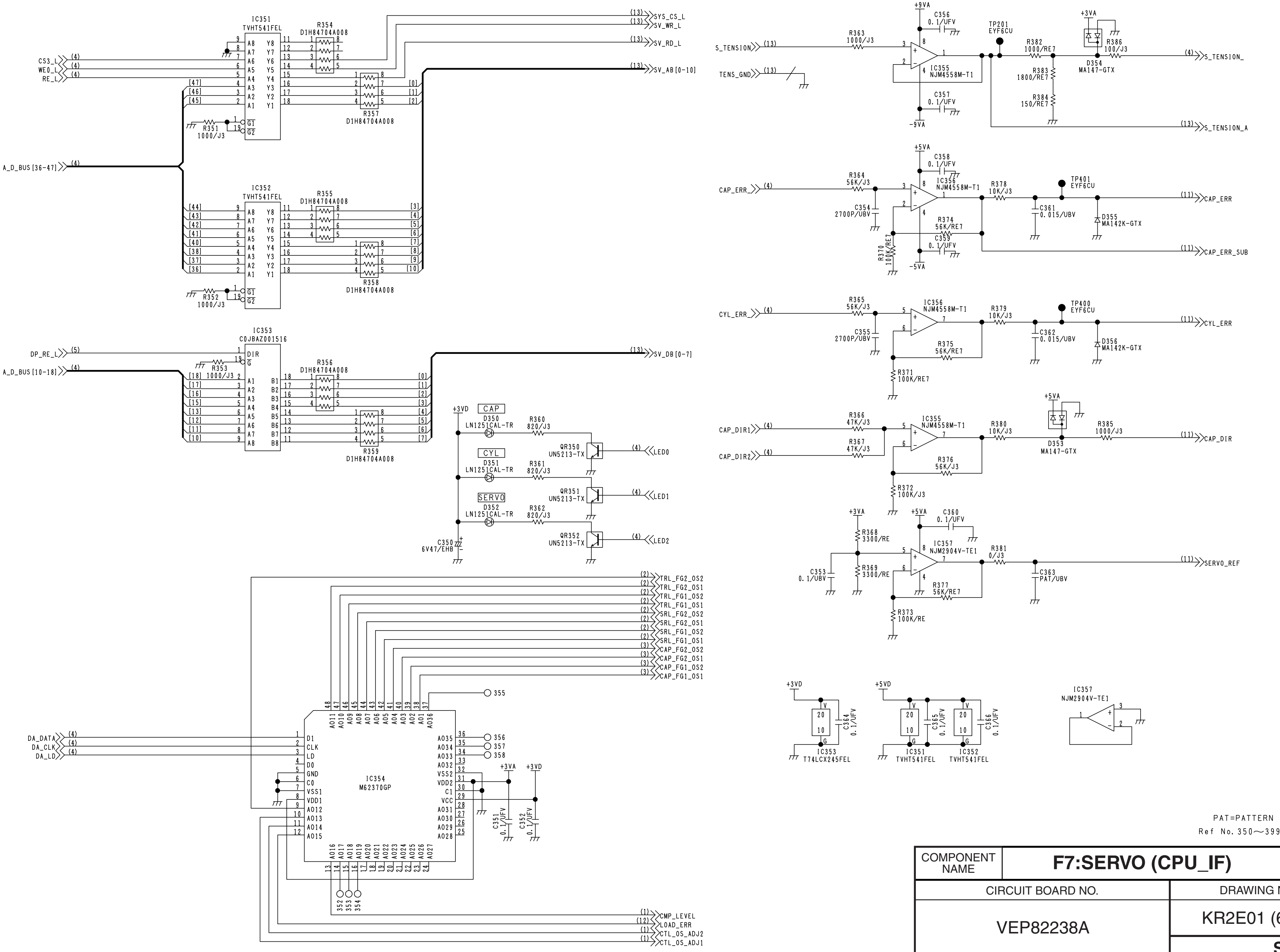
COMPONENT NAME	F7:SERVO (CPU)	04/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (4/14)	
	SCM097	



A_D_BUS[1-18]
A_D_BUS[43-47]
RP_HSW_EDGE
PB_HSW_EDGE
HSW_LEVEL
SYSCLK
WE0_L
CPU_PLD1
CPU_PLD2
HSW_EDGE
IP300
EPM3256A1410
IC301
T74VHC541FT1
P300
VJP3125D008
VOC
TDO
TDI
NC
NC
TMS
GND
TCK
R302
D1H810240001
R305 1000/J3
R304 PAT/J3
R306 1000/J3
R307 100/J3
R308 1000/J3
R309 D1H84704A008
R310 D1H84704A008
R301 47/J3
R303 47K/J3
R311 47K/J3
C301 0.1/UFV
C302 0.1/UFV
C303 0.1/UFV
C304 0.1/UFV
C305 0.1/UFV
TP7
TP8
TP9
TP10
TP11
TP12
TP13
TP14
TP15
TP16
TP31 EYF6CU
TP232 EYF6CU
TP233 EYF6CU
TP280 EYF6CU
TP281 EYF6CU
TP282 EYF6CU
+3VD
RP_HSW
PB_HSW
FR_PULSE
SV_MEC_STB
SV_MEC_CLK
SV_MEC_DATA
CS0_L
RESET_L
RE_L
DP_RE_L
LOADING_END
SYS_REV_H
NTSC_H
FRM_RST
CTL_EDGE_L
CTL_EDGE_H
CTL_EDGE
CTL_PULSE
SV_BUSY_L
CS3_L
DK_L
FG_DET2
CAP_REV_H
SRL_REV_H
TRL_REV_H
CAP_FG1
CAP_FG2
CAP_FG_MPX
SRL_FG1
SRL_FG2
SRL_FG_MPX
TRL_FG1
TRL_FG2
TRL_FG_MPX
FG_DET1
CLE_SOL_ON_H
SOL_LOW_H
SOL_SF
M_STOPPER_OFF_3V
M_STOPPER_ON_3V
PINCH_OFF_3V
PINCH_ON_3V
T_BRAKE_OFF_3V
T_BRAKE_ON_3V
S_BRAKE_OFF_3V
S_BRAKE_ON_3V
L2S_H
STAND_ON_H
UNLOAD_IN_H
F_LOAD_ON_H
LOAD_ON_H
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

PAT=PATTERN ONLY
Ref No. 300～349 Series.

COMPONENT NAME	F7:SERVO (PLD)	05/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (5/14)	
	SCM098	


IC351
TVHT541FEL
R354
D1H84704A008
R357
D1H84704A008
CS3_L
WE0_L
RE_L
R351
1000/J3
A_D_BUS[36-47]
IC352
TVHT541FEL
R355
D1H84704A008
R358
D1H84704A008
R352
1000/J3
IC353
C0JBAZ001516
DP_RE_L
A_D_BUS[10-18]
R353
1000/J3
R356
D1H84704A008
R359
D1H84704A008
SYS_CS_L
SV_WR_L
SV_RD_L
SV_AB[0-10]
SV_DB[0-7]
+3VD
CAP
D350
LN1251CAL-TR
R360
820/J3
QR350
UN5213-TX
LED0
CYL
D351
LN1251CAL-TR
R361
820/J3
QR351
UN5213-TX
LED1
SERVO
D352
LN1251CAL-TR
R362
820/J3
QR352
UN5213-TX
LED2
C350
6V47/EHB
TRL_FG2_OS2
TRL_FG2_OS1
TRL_FG1_OS2
TRL_FG1_OS1
SRL_FG2_OS2
SRL_FG2_OS1
SRL_FG1_OS2
SRL_FG1_OS1
CAP_FG2_OS2
CAP_FG2_OS1
CAP_FG1_OS2
CAP_FG1_OS1
355
356
357
358
DA_DATA
DA_CLK
DA_LD
IC354
M62370GP
+3VA
+3VD
C351
0.1/UFV
C352
0.1/UFV
352
353
354
CMP_LEVEL
LOAD_ERR
CTL_OS_ADJ2
CTL_OS_ADJ1
S_TENSION
TENS_GND
R363
1000/J3
+9VA
C356
0.1/UFV
IC355
NJM4558M-T1
C357
0.1/UFV
-9VA
TP201
EYF6CU
R382
1000/RE7
R383
1800/RE7
R384
150/RE7
+3VA
D354
MA147-GTX
R386
100/J3
S_TENSION_
S_TENSION_A
CAP_ERR
R364
56K/J3
+5VA
C358
0.1/UFV
IC356
NJM4558M-T1
C354
2700P/UBV
R370
100K/RE7
R374
56K/RE7
C359
0.1/UFV
-5VA
R378
10K/J3
TP401
EYF6CU
C361
0.015/UBV
D355
MA142K-GTX
CAP_ERR
CAP_ERR_SUB
CYL_ERR
R365
56K/J3
IC356
NJM4558M-T1
C355
2700P/UBV
R371
100K/RE7
R375
56K/RE7
R379
10K/J3
TP400
EYF6CU
C362
0.015/UBV
D356
MA142K-GTX
CYL_ERR
CAP_DIR1
CAP_DIR2
R366
47K/J3
R367
47K/J3
IC355
NJM4558M-T1
R372
100K/J3
R376
56K/J3
R380
10K/J3
+5VA
D353
MA147-GTX
R385
1000/J3
CAP_DIR
+3VA
R368
3300/RE
R369
3300/RE
C353
0.1/UBV
+5VA
C360
0.1/UFV
IC357
NJM2904V-TE1
R377
56K/RE7
R373
100K/RE
R381
0/J3
C363
PAT/UBV
SERVO_REF
+3VD
C364
0.1/UFV
IC353
T74LCX245FEL
+5VD
C365
0.1/UFV
C366
0.1/UFV
IC351
TVHT541FEL
IC352
TVHT541FEL
IC357
NJM2904V-TE1

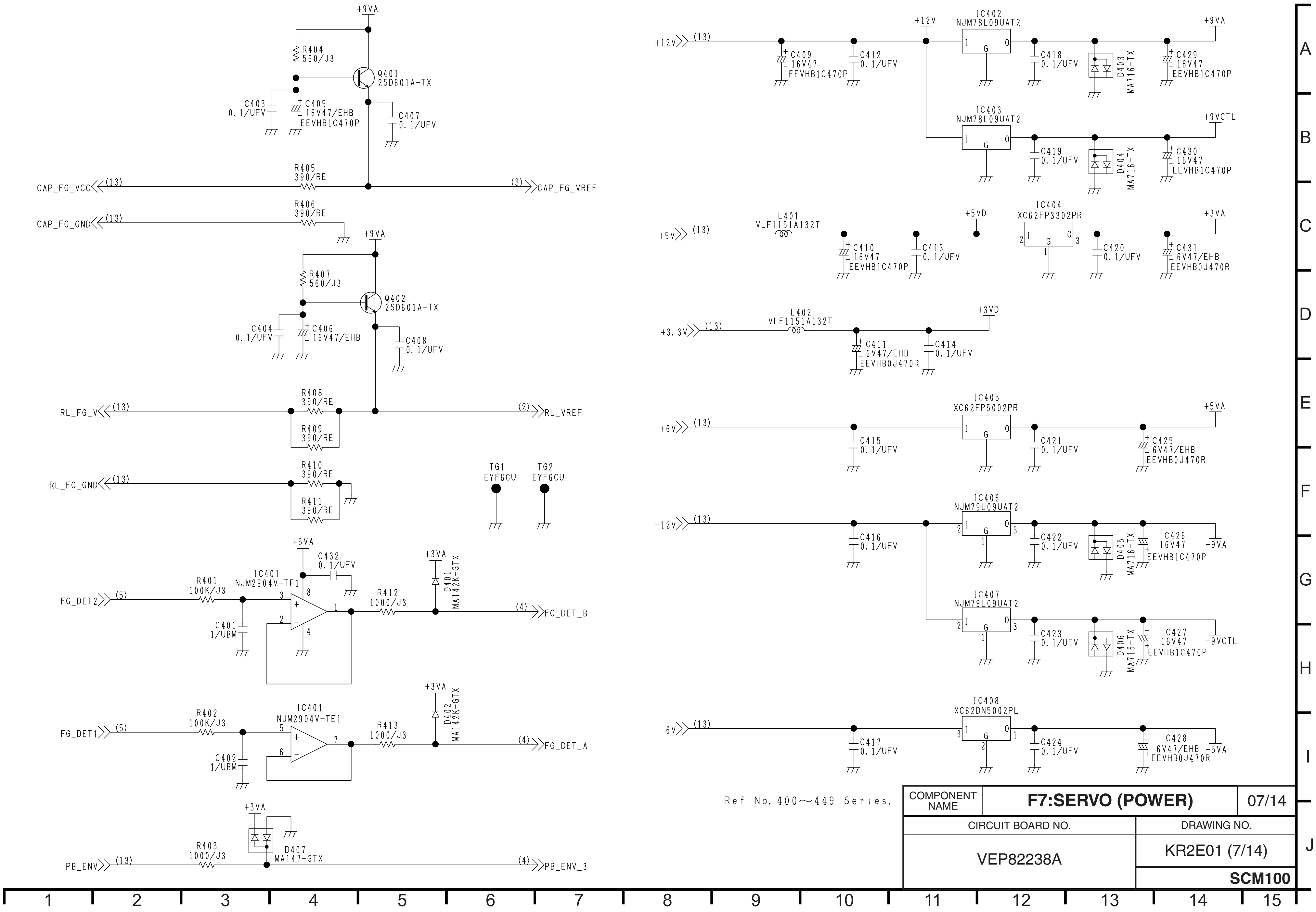
PAT=PATTERN ONLY
Ref No. 350～399 Series.

COMPONENT NAME: **F7:SERVO (CPU_IF)** 06/14

CIRCUIT BOARD NO.: VEP82238A

DRAWING NO.: KR2E01 (6/14)

SCM099


+9VA
R404
560/J3
Q401
2SD601A-TX
C403
0.1/UFV
C405
16V47/EHB
EEVHB1C470P
C407
0.1/UFV
R405
390/RE
CAP_FG_VCC
(13)
(3)
CAP_FG_VREF
R406
390/RE
CAP_FG_GND
(13)
+9VA
R407
560/J3
Q402
2SD601A-TX
C404
0.1/UFV
C406
16V47/EHB
C408
0.1/UFV
R408
390/RE
RL_FG_V
(13)
(2)
RL_VREF
R409
390/RE
R410
390/RE
RL_FG_GND
(13)
R411
390/RE
TG1
EYF6CU
TG2
EYF6CU
+5VA
C432
0.1/UFV
IC401
NJM2904V-TE1
+3VA
D401
MA142K-GTX
R401
100K/J3
FG_DET2
(5)
R412
1000/J3
(4)
FG_DET_B
C401
1/UBM
+3VA
D402
MA142K-GTX
IC401
NJM2904V-TE1
R402
100K/J3
FG_DET1
(5)
R413
1000/J3
(4)
FG_DET_A
C402
1/UBM
+3VA
R403
1000/J3
D407
MA147-GTX
PB_ENV
(13)
(4)
PB_ENV_3
+12V
(13)
C409
16V47
EEVHB1C470P
C412
0.1/UFV
+12V
IC402
NJM78L09UAT2
C418
0.1/UFV
D403
MA716-TX
C429
16V47
EEVHB1C470P
+9VA
IC403
NJM78L09UAT2
C419
0.1/UFV
D404
MA716-TX
C430
16V47
EEVHB1C470P
+9VCTL
+5V
(13)
L401
VLF1151A132T
C410
16V47
EEVHB1C470P
C413
0.1/UFV
+5VD
IC404
XC62FP3302PR
C420
0.1/UFV
C431
6V47/EHB
EEVHB0J470R
+3VA
+3.3V
(13)
L402
VLF1151A132T
C411
6V47/EHB
EEVHB0J470R
C414
0.1/UFV
+3VD
+6V
(13)
C415
0.1/UFV
IC405
XC62FP5002PR
C421
0.1/UFV
C425
6V47/EHB
EEVHB0J470R
+5VA
-12V
(13)
C416
0.1/UFV
IC406
NJM79L09UAT2
C422
0.1/UFV
D405
MA716-TX
C426
16V47
EEVHB1C470P
-9VA
IC407
NJM79L09UAT2
C423
0.1/UFV
D406
MA716-TX
C427
16V47
EEVHB1C470P
-9VCTL
-6V
(13)
C417
0.1/UFV
IC408
XC62DN5002PL
C424
0.1/UFV
C428
6V47/EHB
EEVHB0J470R
-5VA
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
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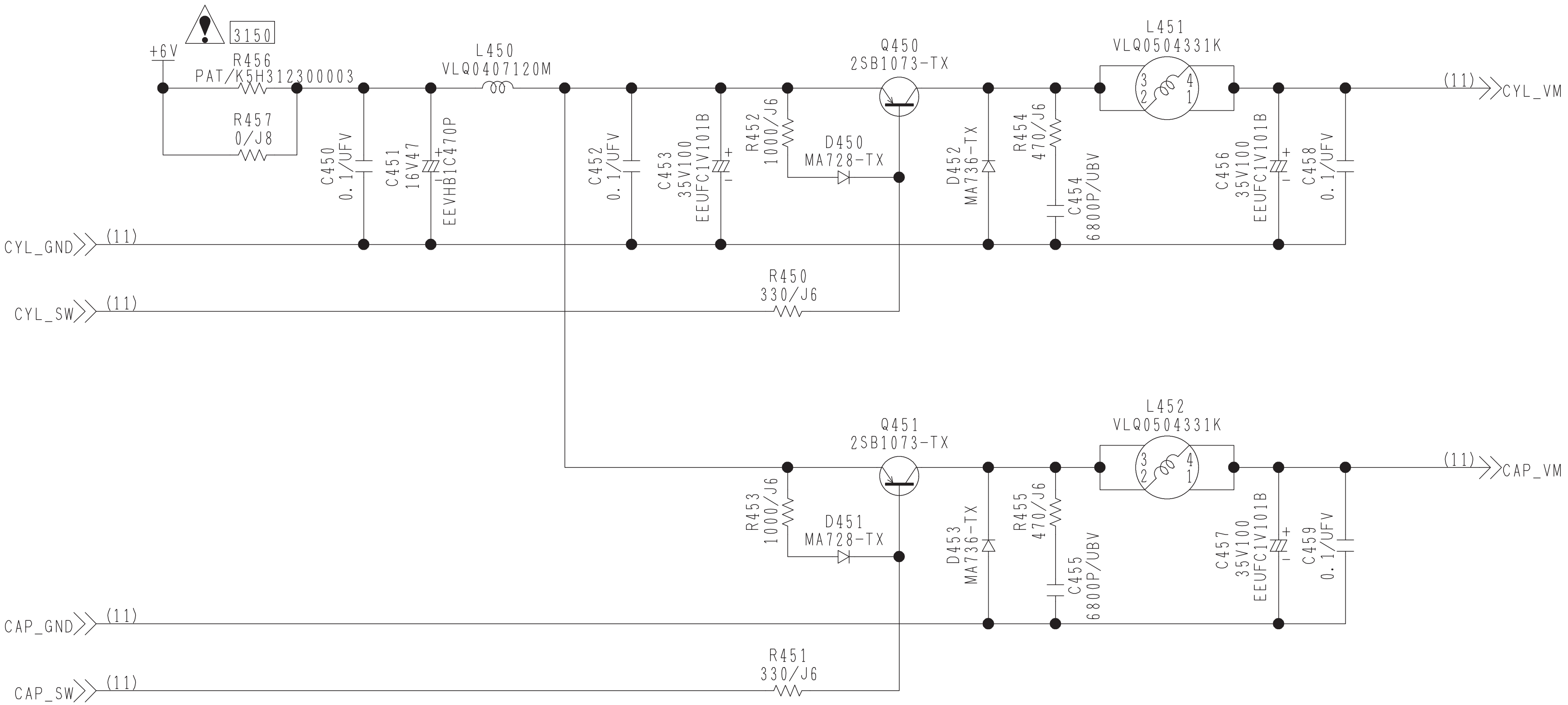
14
15

Ref No. 400〜449 Series.

COMPONENT NAME	**F7:SERVO (POWER)**	07/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (7/14)	
	SCM100	


3150
+6V
R456
PAT/K5H312300003
R457
0/J8
L450
VLQ0407120M
C450
0.1/UFV
C451
16V47
EEVHB1C470P
C452
0.1/UFV
C453
35V100
EEUFC1V101B
R452
1000/J6
D450
MA728-TX
Q450
2SB1073-TX
D452
MA736-TX
R454
470/J6
C454
6800P/UBV
L451
VLQ0504331K
C456
35V100
EEUFC1V101B
C458
0.1/UFV
(11)
CYL_VM
CYL_GND
(11)
R450
330/J6
CYL_SW
(11)
Q451
2SB1073-TX
L452
VLQ0504331K
(11)
CAP_VM
R453
1000/J6
D451
MA728-TX
D453
MA736-TX
R455
470/J6
C455
6800P/UBV
C457
35V100
EEUFC1V101B
C459
0.1/UFV
CAP_GND
(11)
R451
330/J6
CAP_SW
(11)

PAT=PATTERN ONLY

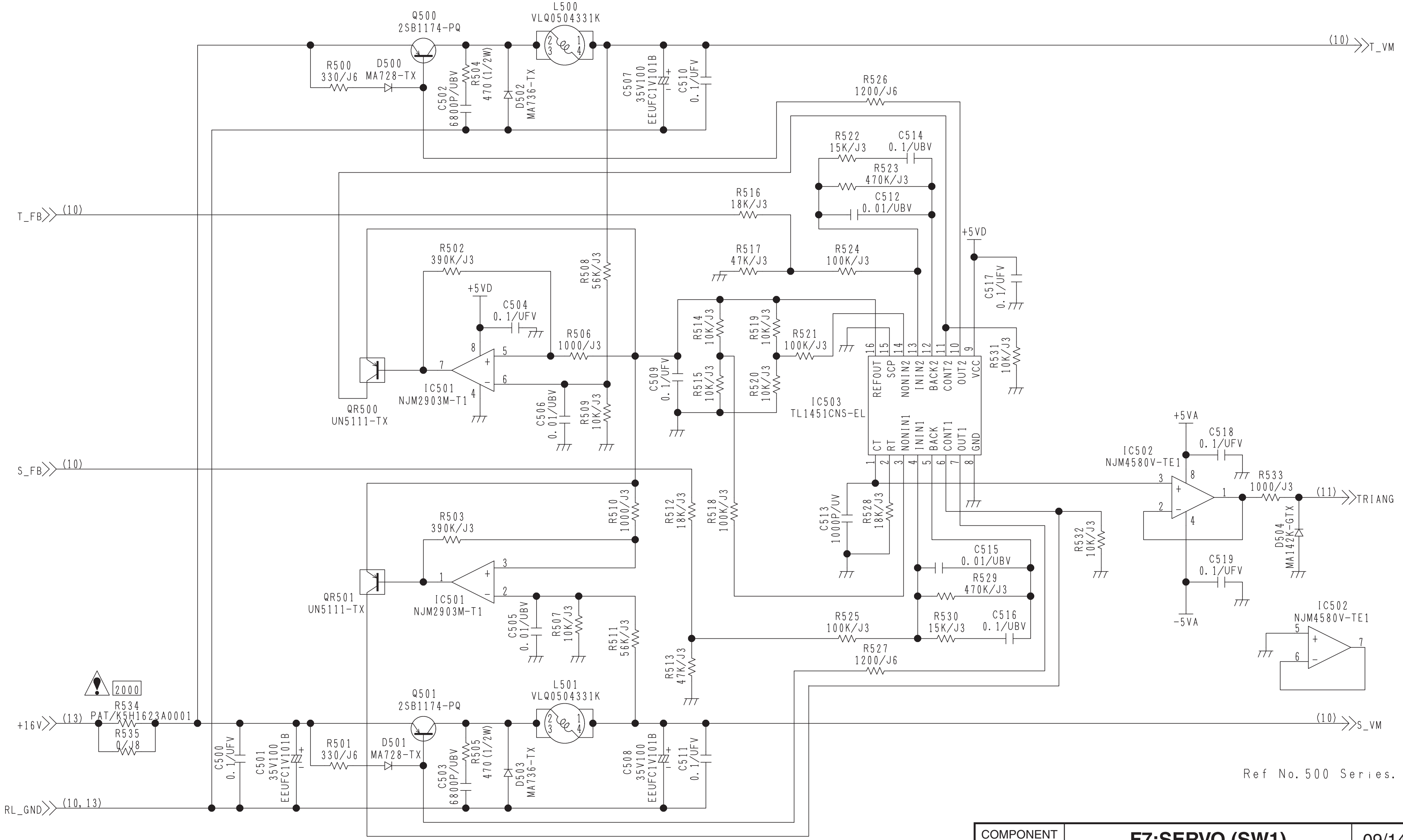
Ref No. 450 Series.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警 告

⚠ の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

COMPONENT NAME	**F7:SERVO (SW2)**	08/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (8/14)	
	SCM101	

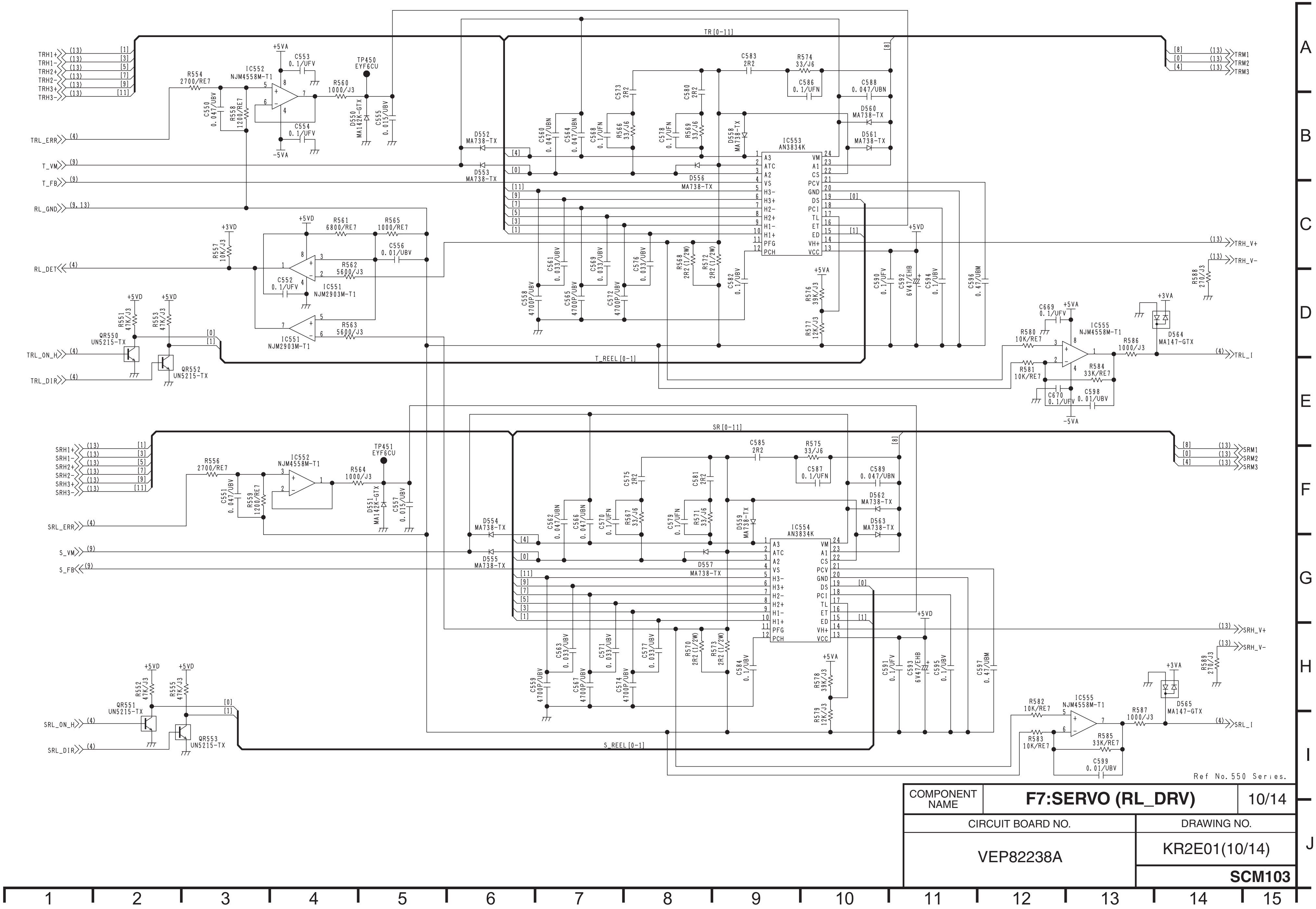

Q500
2SB1174-PQ
L500
VLQ0504331K
R500
330/J6
D500
MA728-TX
C502
6800P/UBV
R504
470(1/2W)
D502
MA736-TX
C507
35V100
EEUFC1V101B
C510
0.1/UFV
(10)
T_VM
R526
1200/J6
R522
15K/J3
C514
0.1/UBV
R523
470K/J3
R516
18K/J3
C512
0.01/UBV
T_FB
(10)
+5VD
R502
390K/J3
R508
56K/J3
R517
47K/J3
R524
100K/J3
C517
0.1/UFV
C504
0.1/UFV
R506
1000/J3
R514
10K/J3
R519
10K/J3
R521
100K/J3
R531
10K/J3
16 15 14 13 12 11 10 9
REFOUT SCP NONIN2 ININ2 BACK2 CONT2 OUT2 VCC
QR500
UN5111-TX
IC501
NJM2903M-T1
C506
0.01/UBV
R509
10K/J3
C509
0.1/UFV
R515
10K/J3
R520
10K/J3
IC503
TL1451CNS-EL
CT RT NONIN1 ININ1 BACK CONT1 OUT1 GND
1 2 3 4 5 6 7 8
+5VA
C518
0.1/UFV
IC502
NJM4580V-TE1
R533
1000/J3
(11)
TRIANG
S_FB
(10)
R503
390K/J3
R510
1000/J3
R512
18K/J3
R518
100K/J3
C513
1000P/UV
R528
18K/J3
R532
10K/J3
D504
MA142K-GTX
C515
0.01/UBV
R529
470K/J3
C519
0.1/UFV
-5VA
QR501
UN5111-TX
IC501
NJM2903M-T1
C505
0.01/UBV
R507
10K/J3
R511
56K/J3
R525
100K/J3
R530
15K/J3
C516
0.1/UBV
IC502
NJM4580V-TE1
R513
47K/J3
R527
1200/J6
2000
R534
PAT/K5H1623A0001
R535
0/J8
+16V
(13)
Q501
2SB1174-PQ
L501
VLQ0504331K
S_VM
C500
0.1/UFV
C501
35V100
EEUFC1V101B
R501
330/J6
D501
MA728-TX
C503
6800P/UBV
R505
470(1/2W)
D503
MA736-TX
C508
35V100
EEUFC1V101B
C511
0.1/UFV
RL_GND
(10,13)
Ref No.500 Series.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

⚠ 警告

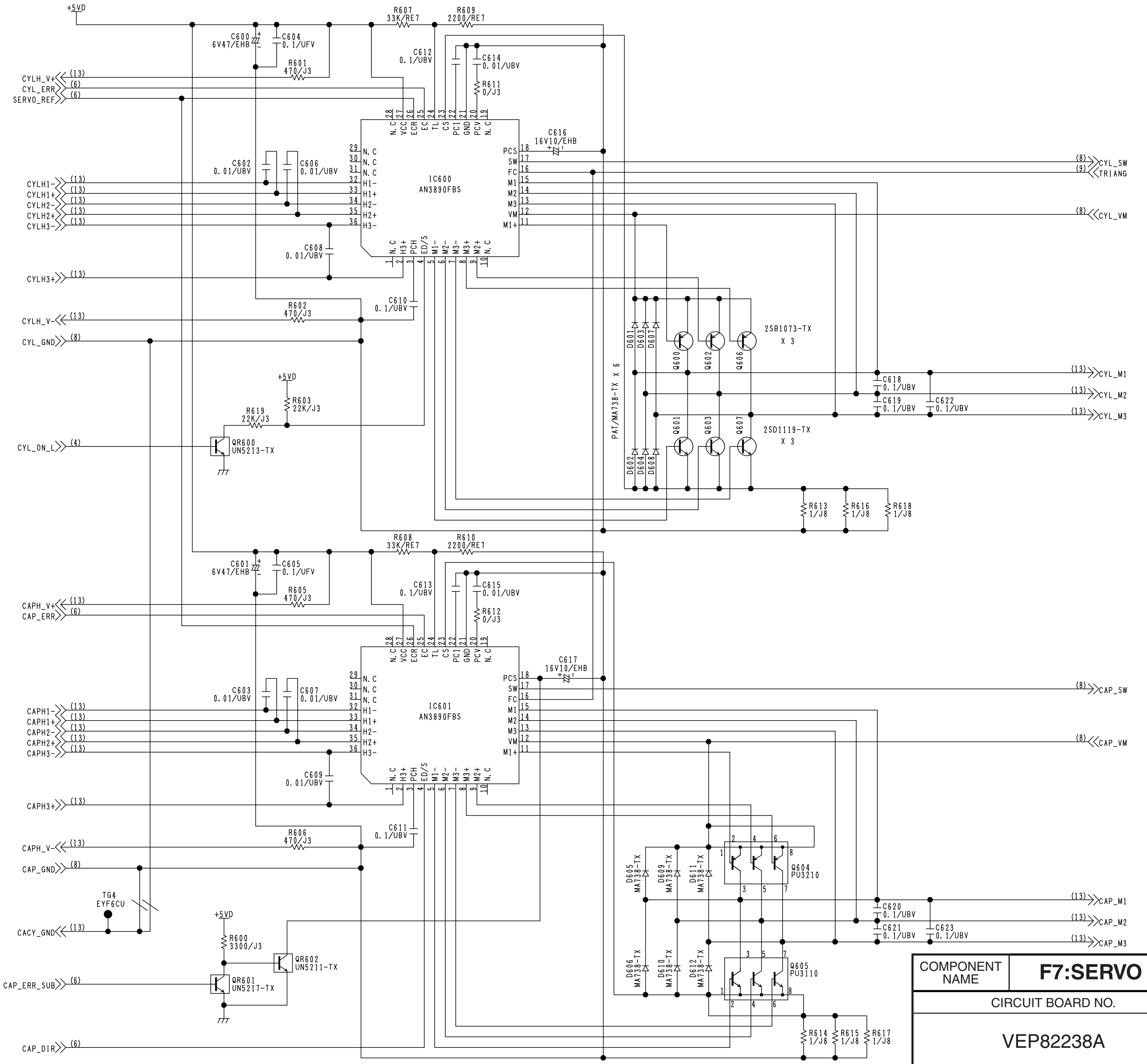
⚠ の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

COMPONENT NAME	F7:SERVO (SW1)	09/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (9/14)	
	SCM102	


TRH1+
TRH1-
TRH2+
TRH2-
TRH3+
TRH3-
TR[0-11]
TRM1
TRM2
TRM3
TRL_ERR
T_VM
T_FB
RL_GND
RL_DET
TRL_ON_H
TRL_DIR
T_REEL[0-1]
TRH_V+
TRH_V-
TRL_I
IC552 NJM4558M-T1
IC551 NJM2903M-T1
IC553 AN3834K
IC555 NJM4558M-T1
TP450 EYF6CU
R554 2700/RE7
R558 1200/RE7
C550 0.047/UBV
C553 0.1/UFV
C554 0.1/UFV
R560 1000/J3
D550 MA142K-GTX
C555 0.015/UBV
D552 MA738-TX
D553 MA738-TX
D556 MA738-TX
D558 MA738-TX
D560 MA738-TX
D561 MA738-TX
C583 2R2
R574 33/J6
C586 0.1/UFN
C588 0.047/UBN
C573 2R2
C580 2R2
R566 33/J6
R569 33/J6
C560 0.047/UBN
C564 0.047/UBN
C568 0.1/UFN
C578 0.1/UFN
R561 6800/RE7
R565 1000/RE7
R557 10K/J3
C556 0.01/UBV
R562 5600/J3
R563 5600/J3
C552 0.1/UFV
R551 47K/J3
R553 47K/J3
QR550 UN5215-TX
QR552 UN5215-TX
C561 0.033/UBV
C569 0.033/UBV
C576 0.033/UBV
C558 4700P/UBV
C565 4700P/UBV
C572 4700P/UBV
R568 2R2(1/2W)
R572 2R2(1/2W)
C582 0.1/UBV
R576 39K/J3
R577 12K/J3
C590 0.1/UFV
C592 6V47/EHB
C594 0.1/UBV
C596 0.47/UBM
R588 270/J3
D564 MA147-GTX
C669 0.1/UFV
R580 10K/RE7
R581 10K/RE7
R584 33K/RE7
R586 1000/J3
C670 0.1/UFV
C598 0.01/UBV
SRH1+
SRH1-
SRH2+
SRH2-
SRH3+
SRH3-
SR[0-11]
SRM1
SRM2
SRM3
SRL_ERR
S_VM
S_FB
SRL_ON_H
SRL_DIR
S_REEL[0-1]
SRH_V+
SRH_V-
SRL_I
IC554 AN3834K
TP451 EYF6CU
R556 2700/RE7
R559 1200/RE7
C551 0.047/UBV
R564 1000/J3
D551 MA142K-GTX
C557 0.015/UBV
D554 MA738-TX
D555 MA738-TX
D557 MA738-TX
D559 MA738-TX
D562 MA738-TX
D563 MA738-TX
C585 2R2
R575 33/J6
C587 0.1/UFN
C589 0.047/UBN
C575 2R2
C581 2R2
R567 33/J6
R571 33/J6
C562 0.047/UBN
C566 0.047/UBN
C570 0.1/UFN
C579 0.1/UFN
R552 47K/J3
R555 47K/J3
QR551 UN5215-TX
QR553 UN5215-TX
C563 0.033/UBV
C571 0.033/UBV
C577 0.033/UBV
C559 4700P/UBV
C567 4700P/UBV
C574 4700P/UBV
R570 2R2(1/2W)
R573 2R2(1/2W)
C584 0.1/UBV
R578 39K/J3
R579 12K/J3
C591 0.1/UFV
C593 6V47/EHB
C595 0.1/UBV
C597 0.47/UBM
R589 270/J3
D565 MA147-GTX
R582 10K/RE7
R583 10K/RE7
R585 33K/RE7
R587 1000/J3
C599 0.01/UBV
+5VA
-5VA
+3VD
+5VD
+3VA
A3 ATC A2 VS H3- H3+ H2- H2+ H1- H1+ PFG PCH
VM A1 CS PCV GND DS PCI TL ET ED VH+ VCC
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

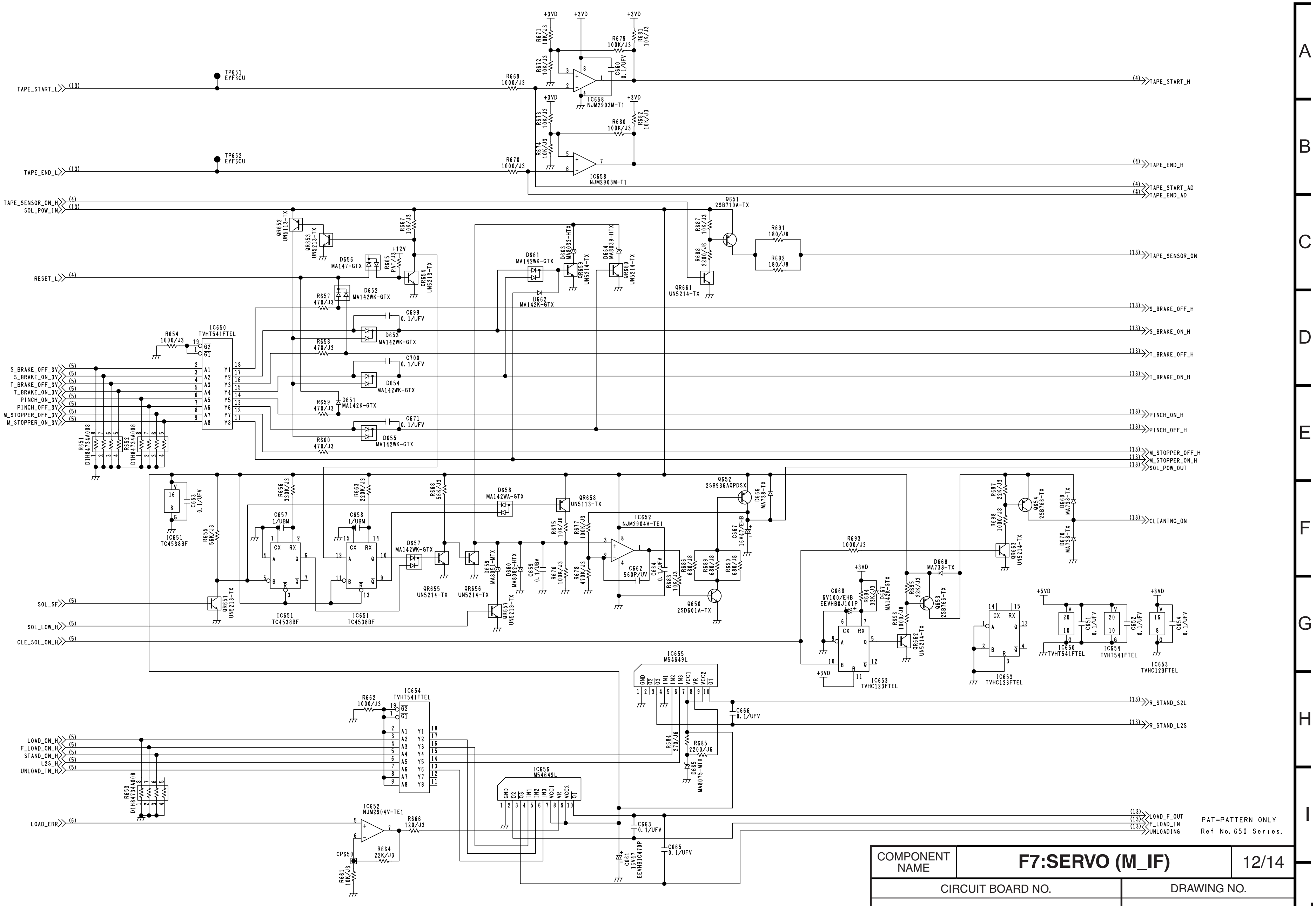
Ref No.550 Series.

COMPONENT NAME	F7:SERVO (RL_DRV)	10/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01(10/14)	
	SCM103	


+5VD
R607 33K/RE7
R609 2200/RE7
C600 6V47/EHB
C604 0.1/UFV
C612 0.1/UBV
C614 0.01/UBV
R601 470/J3
R611 0/J3
CYLH_V+ (13)
CYL_ERR (6)
SERVO_REF (6)
C616 16V10/EHB
IC600 AN3890FBS
C602 0.01/UBV
C606 0.01/UBV
CYLH1- (13)
CYLH1+ (13)
CYLH2- (13)
CYLH2+ (13)
CYLH3- (13)
C608 0.01/UBV
CYLH3+ (13)
C610 0.1/UBV
R602 470/J3
CYLH_V- (13)
CYL_GND (8)
(8) CYL_SW
(9) TRIANG
(8) CYL_VM
2SB1073-TX X 3
Q600
Q602
Q606
D601
D603
D607
PAT/MA738-TX X 6
C618 0.1/UBV
C619 0.1/UBV
C622 0.1/UBV
(13) CYL_M1
(13) CYL_M2
(13) CYL_M3
2SD1119-TX X 3
Q601
Q603
Q607
D602
D604
D608
R613 1/J8
R616 1/J8
R618 1/J8
R603 22K/J3
R619 22K/J3
QR600 UN5213-TX
CYL_ON_L (4)
R608 33K/RE7
R610 2200/RE7
C601 6V47/EHB
C605 0.1/UFV
C613 0.1/UBV
C615 0.01/UBV
R605 470/J3
R612 0/J3
CAPH_V+ (13)
CAP_ERR (6)
C617 16V10/EHB
IC601 AN3890FBS
C603 0.01/UBV
C607 0.01/UBV
CAPH1- (13)
CAPH1+ (13)
CAPH2- (13)
CAPH2+ (13)
CAPH3- (13)
C609 0.01/UBV
CAPH3+ (13)
C611 0.1/UBV
R606 470/J3
CAPH_V- (13)
CAP_GND (8)
(8) CAP_SW
(8) CAP_VM
TG4 EYF6CU
CACY_GND (13)
D605 MA738-TX
D609 MA738-TX
D611 MA738-TX
Q604 PU3210
D606 MA738-TX
D610 MA738-TX
D612 MA738-TX
Q605 PU3110
C620 0.1/UBV
C621 0.1/UBV
C623 0.1/UBV
(13) CAP_M1
(13) CAP_M2
(13) CAP_M3
R614 1/J8
R615 1/J8
R617 1/J8
R600 3300/J3
QR601 UN5217-TX
QR602 UN5211-TX
CAP_ERR_SUB (6)
CAP_DIR (6)
N.C VCC ECR EC TL CS PC1 GND PCV N.C
PCS SW FC M1 M2 M3 VM M1+
N.C H3+ PCH ED/S M1- M2- M3- M3+ M2+ N.C
N.C N.C N.C H1- H1+ H2- H2+ H3-

Ref No. 600 Series.

COMPONENT NAME	F7:SERVO (CA_CY_DRV)	11/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (11/14)	
	SCM104	


TAPE_START_L (13)
TP651 EYF6CU
R669 1000/J3
IC658 NJM2903M-T1
C660 0.1/UFV
R679 100K/J3
R681 10K/J3
R671 10K/J3
R672 10K/J3
+3VD
(4) TAPE_START_H
TAPE_END_L (13)
TP652 EYF6CU
R670 1000/J3
R680 100K/J3
R682 10K/J3
R673 10K/J3
R674 10K/J3
(4) TAPE_END_H
(4) TAPE_START_AD
(4) TAPE_END_AD
TAPE_SENSOR_ON_H (4)
SOL_POW_IN (13)
Q651 2SB710A-TX
R687 10K/J3
R688 2200/J6
QR661 UN5214-TX
R691 180/J8
R692 180/J8
(13) TAPE_SENSOR_ON
RESET_L (4)
QR652 UN5113-TX
QR653 UN5213-TX
D656 MA147-GTX
R665 PAT
+12V
R667 10K/J3
QR654 UN5213-TX
D652 MA142WK-GTX
R657 470/J3
D661 MA142WK-GTX
D662 MA142K-GTX
D663 MA8033-HTX
QR659 UN5214-TX
D664 MA8039-HTX
QR660 UN5214-TX
C699 0.1/UFV
D653 MA142WK-GTX
R658 470/J3
C700 0.1/UFV
D654 MA142WK-GTX
R659 470/J3
D651 MA142K-GTX
C671 0.1/UFV
D655 MA142WK-GTX
R660 470/J3
R654 1000/J3
IC650 TVHT541FTEL
(13) S_BRAKE_OFF_H
(13) S_BRAKE_ON_H
(13) T_BRAKE_OFF_H
(13) T_BRAKE_ON_H
(13) PINCH_ON_H
(13) PINCH_OFF_H
(13) M_STOPPER_OFF_H
(13) M_STOPPER_ON_H
(13) SOL_POW_OUT
S_BRAKE_OFF_3V (5)
S_BRAKE_ON_3V (5)
T_BRAKE_OFF_3V (5)
T_BRAKE_ON_3V (5)
PINCH_ON_3V (5)
PINCH_OFF_3V (5)
M_STOPPER_OFF_3V (5)
M_STOPPER_ON_3V (5)
R651 D1H8473A008
R652 D1H8473A008
IC651 TC4538BF
C653 0.1/UFV
R655 56K/J3
R656 330K/J3
C657 1/UBM
R663 220K/J3
C658 1/UBM
R668 56K/J3
D657 MA142WK-GTX
D658 MA142WA-GTX
QR658 UN5113-TX
QR655 UN5214-TX
QR656 UN5214-TX
D659 MA8051-MTX
D660 MA8082-HTX
C659 0.1/UBV
R675 10K/J6
R676 100K/J3
R677 100K/J3
R678 470K/J3
IC652 NJM2904V-TE1
C662 560P/UV
C664 0.1/UFV
R683 10K/J3
R686 680/J8
R689 680/J8
R690 680/J8
Q650 2SD601A-TX
Q652 2SB936AQPDSX
D666 MA738-TX
C667 16V47/EHB
QR657 UN5213-TX
SOL_SF (5)
QR651 UN5213-TX
SOL_LOW_H (5)
CLE_SOL_ON_H (5)
R693 1000/J3
C668 6V100/EHB EEVHB0J101P
R694 33K/J3
D667 MA142K-GTX
R696 1000/J8
R695 22K/J3
Q653 2SB766-TX
D668 MA738-TX
QR662 UN5214-TX
IC653 TVHC123FTEL
R697 22K/J3
R698 1000/J8
Q654 2SB766-TX
D669 MA738-TX
D670 MA738-TX
QR663 UN5214-TX
(13) CLEANING_ON
+5VD
C651 0.1/UFV
C652 0.1/UFV
C654 0.1/UFV
IC654 TVHT541FTEL
IC655 M54649L
C666 0.1/UFV
(13) R_STAND_S2L
(13) R_STAND_L2S
R684 270/J6
R685 2200/J6
D665 MA8075-MTX
R662 1000/J3
LOAD_ON_H (5)
F_LOAD_ON_H (5)
STAND_ON_H (5)
L2S_H (5)
UNLOAD_IN_H (5)
R653 D1H8473A008
IC656 M54649L
LOAD_ERR (6)
R666 120/J3
R664 22K/J3
CP650
R661 10K/J3
C663 0.1/UFV
C665 0.1/UFV
C661 16V47 EEVHB1C470P
(13) LOAD_F_OUT
(13) F_LOAD_IN
(13) UNLOADING
A
B
C
D
E
F
G
H
I
J
1
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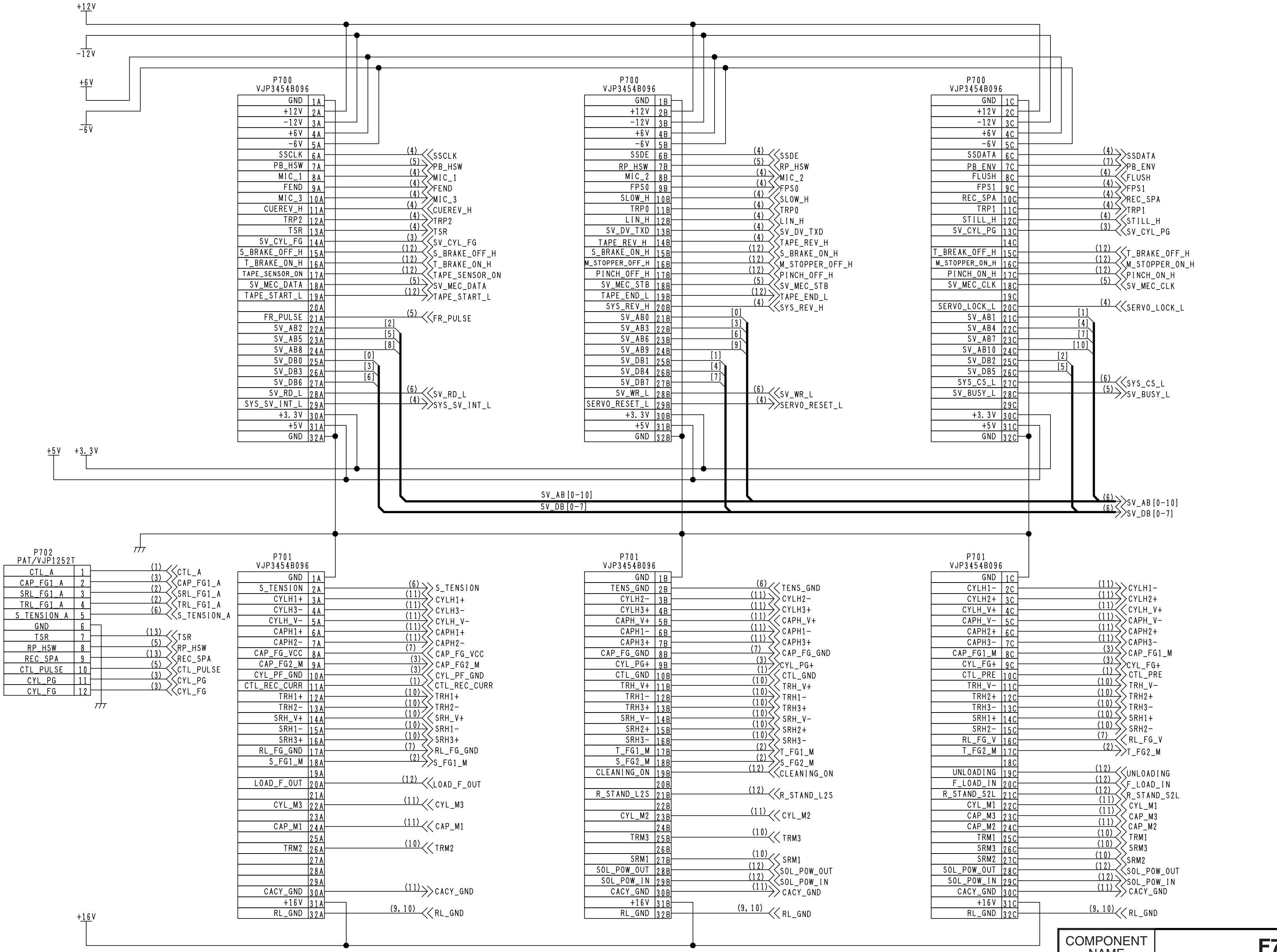
PAT=PATTERN ONLY
Ref No. 650 Series.

COMPONENT NAME	**F7:SERVO (M_IF)**	12/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (12/14)	
	SCM105	



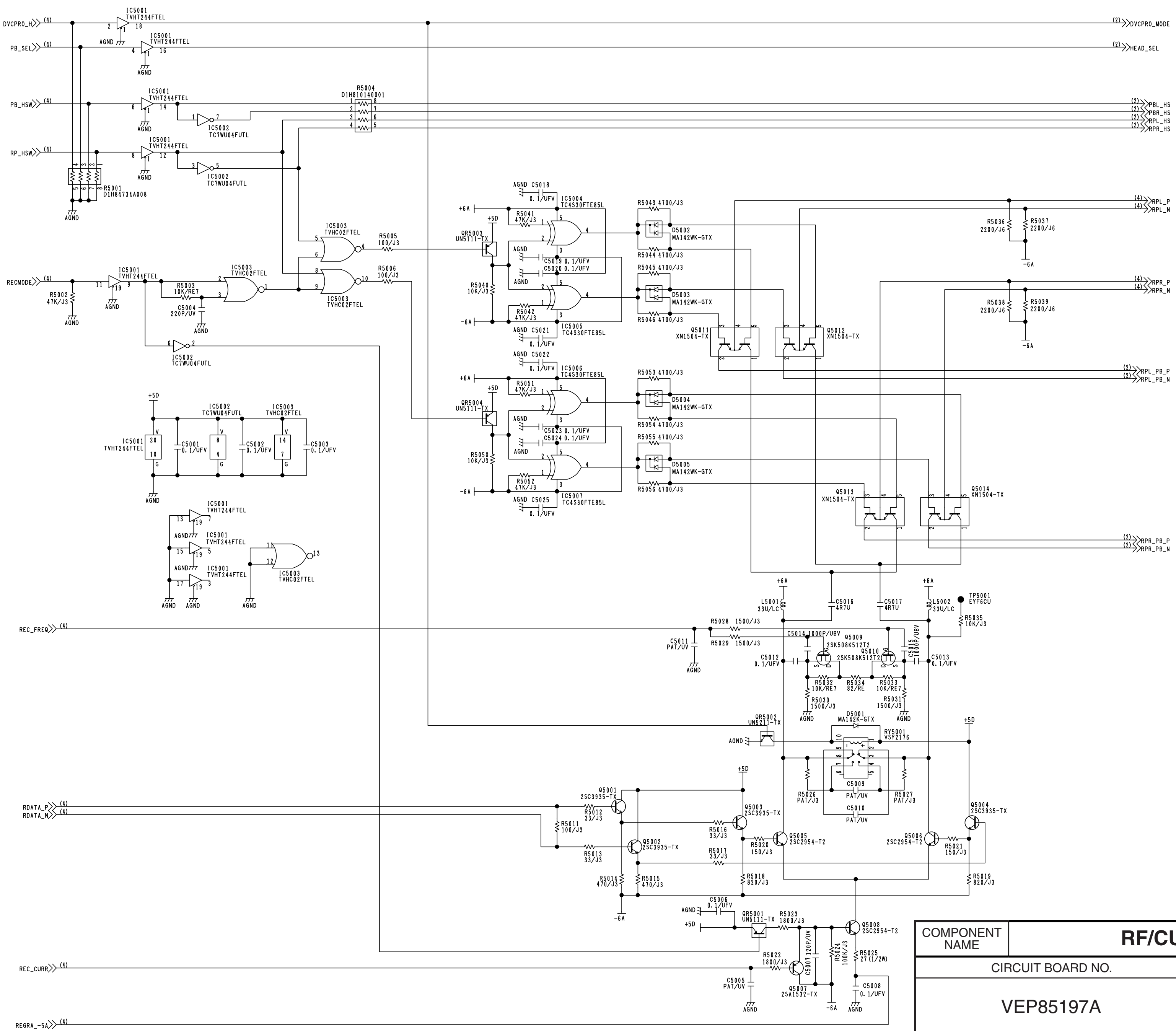
+12V
-12V
+6V
-6V
P700 VJP3454B096
GND 1A, +12V 2A, -12V 3A, +6V 4A, -6V 5A, SSCLK 6A, PB_HSW 7A, MIC_1 8A, FEND 9A, MIC_3 10A, CUEREV_H 11A, TRP2 12A, TSR 13A, SV_CYL_FG 14A, S_BRAKE_OFF_H 15A, T_BRAKE_ON_H 16A, TAPE_SENSOR_ON 17A, SV_MEC_DATA 18A, TAPE_START_L 19A, 20A, FR_PULSE 21A, SV_AB2 22A, SV_AB5 23A, SV_AB8 24A, SV_DB0 25A, SV_DB3 26A, SV_DB6 27A, SV_RD_L 28A, SYS_SV_INT_L 29A, +3.3V 30A, +5V 31A, GND 32A
(4) SSCLK, (5) PB_HSW, (4) MIC_1, (4) FEND, (4) MIC_3, (4) CUEREV_H, (4) TRP2, (4) TSR, (3) SV_CYL_FG, (12) S_BRAKE_OFF_H, (12) T_BRAKE_ON_H, (12) TAPE_SENSOR_ON, (5) SV_MEC_DATA, (12) TAPE_START_L, (5) FR_PULSE, (6) SV_RD_L, (4) SYS_SV_INT_L
[2] [5] [8] [0] [3] [6]
P700 VJP3454B096
GND 1B, +12V 2B, -12V 3B, +6V 4B, -6V 5B, SSDE 6B, RP_HSW 7B, MIC_2 8B, FPS0 9B, SLOW_H 10B, TRP0 11B, LIN_H 12B, SV_DV_TXD 13B, TAPE_REV_H 14B, S_BRAKE_ON_H 15B, M_STOPPER_OFF_H 16B, PINCH_OFF_H 17B, SV_MEC_STB 18B, TAPE_END_L 19B, SYS_REV_H 20B, SV_AB0 21B, SV_AB3 22B, SV_AB6 23B, SV_AB9 24B, SV_DB1 25B, SV_DB4 26B, SV_DB7 27B, SV_WR_L 28B, SERVO_RESET_L 29B, +3.3V 30B, +5V 31B, GND 32B
(4) SSDE, (5) RP_HSW, (4) MIC_2, (4) FPS0, (4) SLOW_H, (4) TRP0, (4) LIN_H, (4) SV_DV_TXD, (4) TAPE_REV_H, (12) S_BRAKE_ON_H, (12) M_STOPPER_OFF_H, (12) PINCH_OFF_H, (5) SV_MEC_STB, (12) TAPE_END_L, (4) SYS_REV_H, (6) SV_WR_L, (4) SERVO_RESET_L
[0] [3] [6] [9] [1] [4] [7]
P700 VJP3454B096
GND 1C, +12V 2C, -12V 3C, +6V 4C, -6V 5C, SSDATA 6C, PB_ENV 7C, FLUSH 8C, FPS1 9C, REC_SPA 10C, TRP1 11C, STILL_H 12C, SV_CYL_PG 13C, 14C, T_BREAK_OFF_H 15C, M_STOPPER_ON_H 16C, PINCH_ON_H 17C, SV_MEC_CLK 18C, 19C, SERVO_LOCK_L 20C, SV_AB1 21C, SV_AB4 22C, SV_AB7 23C, SV_AB10 24C, SV_DB2 25C, SV_DB5 26C, SYS_CS_L 27C, SV_BUSY_L 28C, 29C, +3.3V 30C, +5V 31C, GND 32C
(4) SSDATA, (7) PB_ENV, (4) FLUSH, (4) FPS1, (4) REC_SPA, (4) TRP1, (4) STILL_H, (3) SV_CYL_PG, (12) T_BRAKE_OFF_H, (12) M_STOPPER_ON_H, (12) PINCH_ON_H, (5) SV_MEC_CLK, (4) SERVO_LOCK_L, (6) SYS_CS_L, (5) SV_BUSY_L
[1] [4] [7] [10] [2] [5]
+5V
+3.3V
SV_AB[0-10]
SV_DB[0-7]
(6) SV_AB[0-10]
(6) SV_DB[0-7]
P702 PAT/VJP1252T
CTL_A 1, CAP_FG1_A 2, SRL_FG1_A 3, TRL_FG1_A 4, S_TENSION_A 5, GND 6, TSR 7, RP_HSW 8, REC_SPA 9, CTL_PULSE 10, CYL_PG 11, CYL_FG 12
(1) CTL_A, (3) CAP_FG1_A, (2) SRL_FG1_A, (2) TRL_FG1_A, (6) S_TENSION_A, (13) TSR, (5) RP_HSW, (13) REC_SPA, (5) CTL_PULSE, (3) CYL_PG, (3) CYL_FG
P701 VJP3454B096
GND 1A, S_TENSION 2A, CYLH1+ 3A, CYLH3- 4A, CYLH_V- 5A, CAPH1+ 6A, CAPH2- 7A, CAP_FG_VCC 8A, CAP_FG2_M 9A, CYL_PF_GND 10A, CTL_REC_CURR 11A, TRH1+ 12A, TRH2- 13A, SRH_V+ 14A, SRH1- 15A, SRH3+ 16A, RL_FG_GND 17A, S_FG1_M 18A, 19A, LOAD_F_OUT 20A, 21A, CYL_M3 22A, 23A, CAP_M1 24A, 25A, TRM2 26A, 27A, 28A, 29A, CACY_GND 30A, +16V 31A, RL_GND 32A
(6) S_TENSION, (11) CYLH1+, (11) CYLH3-, (11) CYLH_V-, (11) CAPH1+, (11) CAPH2-, (7) CAP_FG_VCC, (3) CAP_FG2_M, (3) CYL_PF_GND, (1) CTL_REC_CURR, (10) TRH1+, (10) TRH2-, (10) SRH_V+, (10) SRH1-, (10) SRH3+, (7) RL_FG_GND, (2) S_FG1_M, (12) LOAD_F_OUT, (11) CYL_M3, (11) CAP_M1, (10) TRM2, (11) CACY_GND, (9,10) RL_GND
P701 VJP3454B096
GND 1B, TENS_GND 2B, CYLH2- 3B, CYLH3+ 4B, CAPH_V+ 5B, CAPH1- 6B, CAPH3+ 7B, CAP_FG_GND 8B, CYL_PG+ 9B, CTL_GND 10B, TRH_V+ 11B, TRH1- 12B, TRH3+ 13B, SRH_V- 14B, SRH2+ 15B, SRH3- 16B, T_FG1_M 17B, S_FG2_M 18B, CLEANING_ON 19B, 20B, R_STAND_L2S 21B, 22B, CYL_M2 23B, 24B, TRM3 25B, 26B, SRM1 27B, SOL_POW_OUT 28B, SOL_POW_IN 29B, CACY_GND 30B, +16V 31B, RL_GND 32B
(6) TENS_GND, (11) CYLH2-, (11) CYLH3+, (11) CAPH_V+, (11) CAPH1-, (11) CAPH3+, (7) CAP_FG_GND, (3) CYL_PG+, (1) CTL_GND, (10) TRH_V+, (10) TRH1-, (10) TRH3+, (10) SRH_V-, (10) SRH2+, (10) SRH3-, (2) T_FG1_M, (2) S_FG2_M, (12) CLEANING_ON, (12) R_STAND_L2S, (11) CYL_M2, (10) TRM3, (10) SRM1, (12) SOL_POW_OUT, (12) SOL_POW_IN, (11) CACY_GND, (9,10) RL_GND
P701 VJP3454B096
GND 1C, CYLH1- 2C, CYLH2+ 3C, CYLH_V+ 4C, CAPH_V- 5C, CAPH2+ 6C, CAPH3- 7C, CAP_FG1_M 8C, CYL_FG+ 9C, CTL_PRE 10C, TRH_V- 11C, TRH2+ 12C, TRH3- 13C, SRH1+ 14C, SRH2- 15C, RL_FG_V 16C, T_FG2_M 17C, 18C, UNLOADING 19C, F_LOAD_IN 20C, R_STAND_S2L 21C, CYL_M1 22C, CAP_M3 23C, CAP_M2 24C, TRM1 25C, SRM3 26C, SRM2 27C, SOL_POW_OUT 28C, SOL_POW_IN 29C, CACY_GND 30C, +16V 31C, RL_GND 32C
(11) CYLH1-, (11) CYLH2+, (11) CYLH_V+, (11) CAPH_V-, (11) CAPH2+, (11) CAPH3-, (3) CAP_FG1_M, (3) CYL_FG+, (1) CTL_PRE, (10) TRH_V-, (10) TRH2+, (10) TRH3-, (10) SRH1+, (10) SRH2-, (7) RL_FG_V, (2) T_FG2_M, (12) UNLOADING, (12) F_LOAD_IN, (12) R_STAND_S2L, (11) CYL_M1, (11) CAP_M3, (11) CAP_M2, (10) TRM1, (10) SRM3, (10) SRM2, (12) SOL_POW_OUT, (12) SOL_POW_IN, (11) CACY_GND, (9,10) RL_GND
+16V

Ref No. 700 Series.

COMPONENT NAME	F7:SERVO	13/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (13/14)	
	SCM106	

IP201 MN1030F04KHF			IP300 EPM3256A1410		
VSI3565A			VSI3567		

COMPONENT NAME	**F7:SERVO (SOFT)**	14/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238A	KR2E01 (14/14) **SCM107**	


DVCPRO_H (4)
PB_SEL (4)
PB_HSW (4)
RP_HSW (4)
RECMODE (4)
REC_FREQ (4)
RDATA_P (4)
RDATA_N (4)
REC_CURR (4)
REGRA_-5A (4)
(2) DVCPRO_MODE
(2) HEAD_SEL
(2) PBL_HS
(2) PBR_HS
(2) RPL_HS
(2) RPR_HS
(4) RPL_P
(4) RPL_N
(4) RPR_P
(4) RPR_N
(2) RPL_PB_P
(2) RPL_PB_N
(2) RPR_PB_P
(2) RPR_PB_N
IC5001 TVHT244FTEL
IC5002 TC7WU04FUTL
IC5003 TVHC02FTEL
IC5004 TC4S30FTE85L
IC5005 TC4S30FTE85L
IC5006 TC4S30FTE85L
IC5007 TC4S30FTE85L
R5001 D1H84734A008
R5002 47K/J3
R5003 10K/RE7
R5004 D1H810140001
R5005 100/J3
R5006 100/J3
C5004 220P/UV
C5001 0.1/UFV
C5002 0.1/UFV
C5003 0.1/UFV
QR5003 UN5111-TX
QR5004 UN5111-TX
R5040 10K/J3
R5041 47K/J3
R5042 47K/J3
R5050 10K/J3
R5051 47K/J3
R5052 47K/J3
C5018 0.1/UFV
C5019 0.1/UFV
C5020 0.1/UFV
C5021 0.1/UFV
C5022 0.1/UFV
C5023 0.1/UFV
C5024 0.1/UFV
C5025 0.1/UFV
R5043 4700/J3
R5044 4700/J3
R5045 4700/J3
R5046 4700/J3
R5053 4700/J3
R5054 4700/J3
R5055 4700/J3
R5056 4700/J3
D5002 MA142WK-GTX
D5003 MA142WK-GTX
D5004 MA142WK-GTX
D5005 MA142WK-GTX
Q5011 XN1504-TX
Q5012 XN1504-TX
Q5013 XN1504-TX
Q5014 XN1504-TX
R5036 2200/J6
R5037 2200/J6
R5038 2200/J6
R5039 2200/J6
L5001 33U/LC
L5002 33U/LC
C5016 4R7U
C5017 4R7U
TP5001 EYF6CU
R5035 10K/J3
R5028 1500/J3
R5029 1500/J3
C5011 PAT/UV
C5014 1000P/UBV
C5015 1000P/UBV
Q5009 2SK508K512T2
Q5010 2SK508K512T2
C5012 0.1/UFV
C5013 0.1/UFV
R5032 10K/RE7
R5034 82/RE
R5033 10K/RE7
R5030 1500/J3
R5031 1500/J3
D5001 MA142K-GTX
QR5002 UN5211-TX
RY5001 VSY2176
R5026 PAT/J3
R5027 PAT/J3
C5009 PAT/UV
C5010 PAT/UV
Q5001 2SC3935-TX
Q5002 2SC3935-TX
Q5003 2SC3935-TX
Q5004 2SC3935-TX
Q5005 2SC2954-T2
Q5006 2SC2954-T2
R5011 100/J3
R5012 33/J3
R5013 33/J3
R5016 33/J3
R5017 33/J3
R5020 150/J3
R5021 150/J3
R5014 470/J3
R5015 470/J3
R5018 820/J3
R5019 820/J3
C5006 0.1/UFV
QR5001 UN5111-TX
R5023 1800/J3
Q5008 2SC2954-T2
R5022 1800/J3
C5007 120P/UV
R5024 100K/J3
R5025 27(1/2W)
C5005 PAT/UV
Q5007 2SA1532-TX
C5008 0.1/UFV
+5D
+6A
-6A
AGND
A
B
C
D
E
F
G
H
I
J
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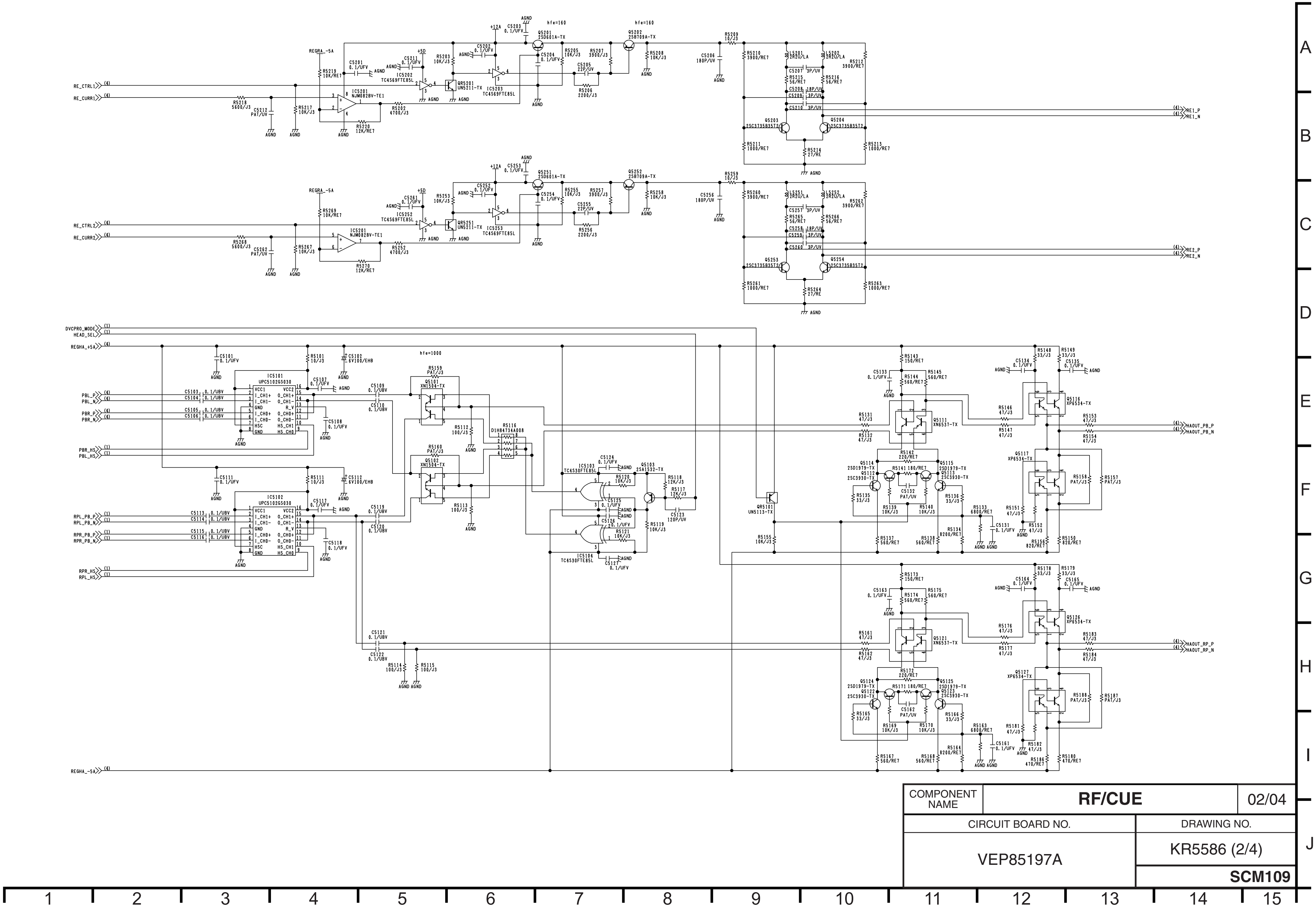
COMPONENT NAME	RF/CUE	01/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85197A	KR5586 (1/4)	
	SCM108	


RE_CTRL1
RE_CURR1
RE_CTRL2
RE_CURR2
REGRA_-5A
IC5201 NJM082BV-TE1
IC5202 TC4S69FTE85L
IC5203 TC4S69FTE85L
IC5252 TC4S69FTE85L
IC5253 TC4S69FTE85L
Q5201 2SD601A-TX
Q5202 2SB709A-TX
Q5251 2SD601A-TX
Q5252 2SB709A-TX
QR5201 UN5211-TX
QR5251 UN5211-TX
Q5203 2SC3735B35T2
Q5204 2SC3735B35T2
Q5253 2SC3735B35T2
Q5254 2SC3735B35T2
hfe=160
+12A
+5D
AGND
RE1_P
RE1_N
RE2_P
RE2_N
DVCPRO_MODE
HEAD_SEL
REGHA_+5A
PBL_P
PBL_N
PBR_P
PBR_N
PBR_HS
PBL_HS
RPL_PB_P
RPL_PB_N
RPR_PB_P
RPR_PB_N
RPR_HS
RPL_HS
REGHA_-5A
IC5101 UPC5102GS030
IC5102 UPC5102GS030
hfe=1000
Q5101 XN1504-TX
Q5102 XN1504-TX
R5116 D1H84734A008
IC5103 TC4S30FTE85L
IC5104 TC4S30FTE85L
Q5103 2SA1532-TX
QR5101 UN5113-TX
Q5111 XN6537-TX
Q5121 XN6537-TX
Q5116 XP6534-TX
Q5117 XP6534-TX
Q5126 XP6534-TX
Q5127 XP6534-TX
Q5114 2SD1979-TX
Q5115 2SD1979-TX
Q5112 2SC3930-TX
Q5113 2SC3930-TX
Q5124 2SD1979-TX
Q5125 2SD1979-TX
Q5122 2SC3930-TX
Q5123 2SC3930-TX
HAOUT_PB_P
HAOUT_PB_N
HAOUT_RP_P
HAOUT_RP_N
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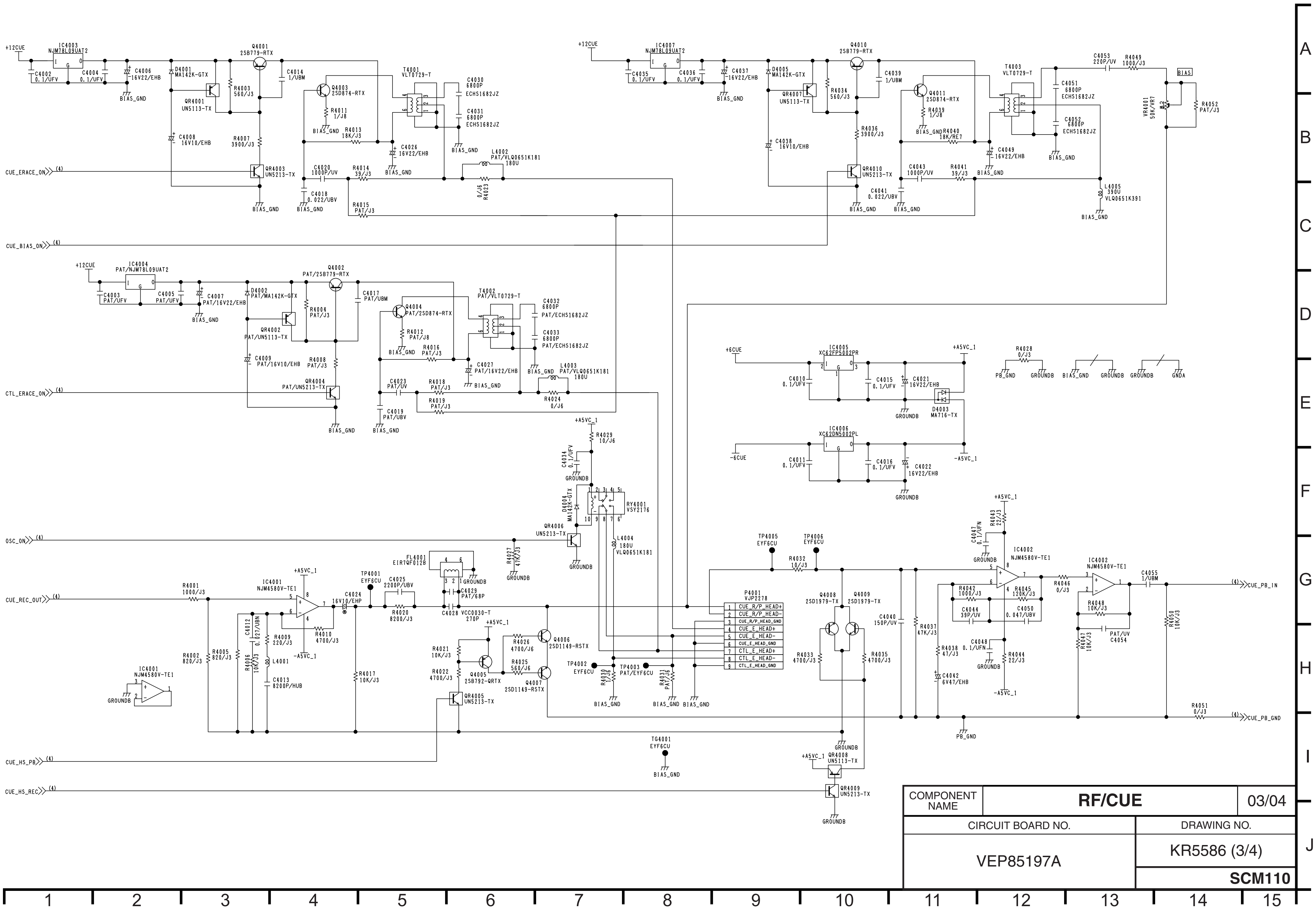
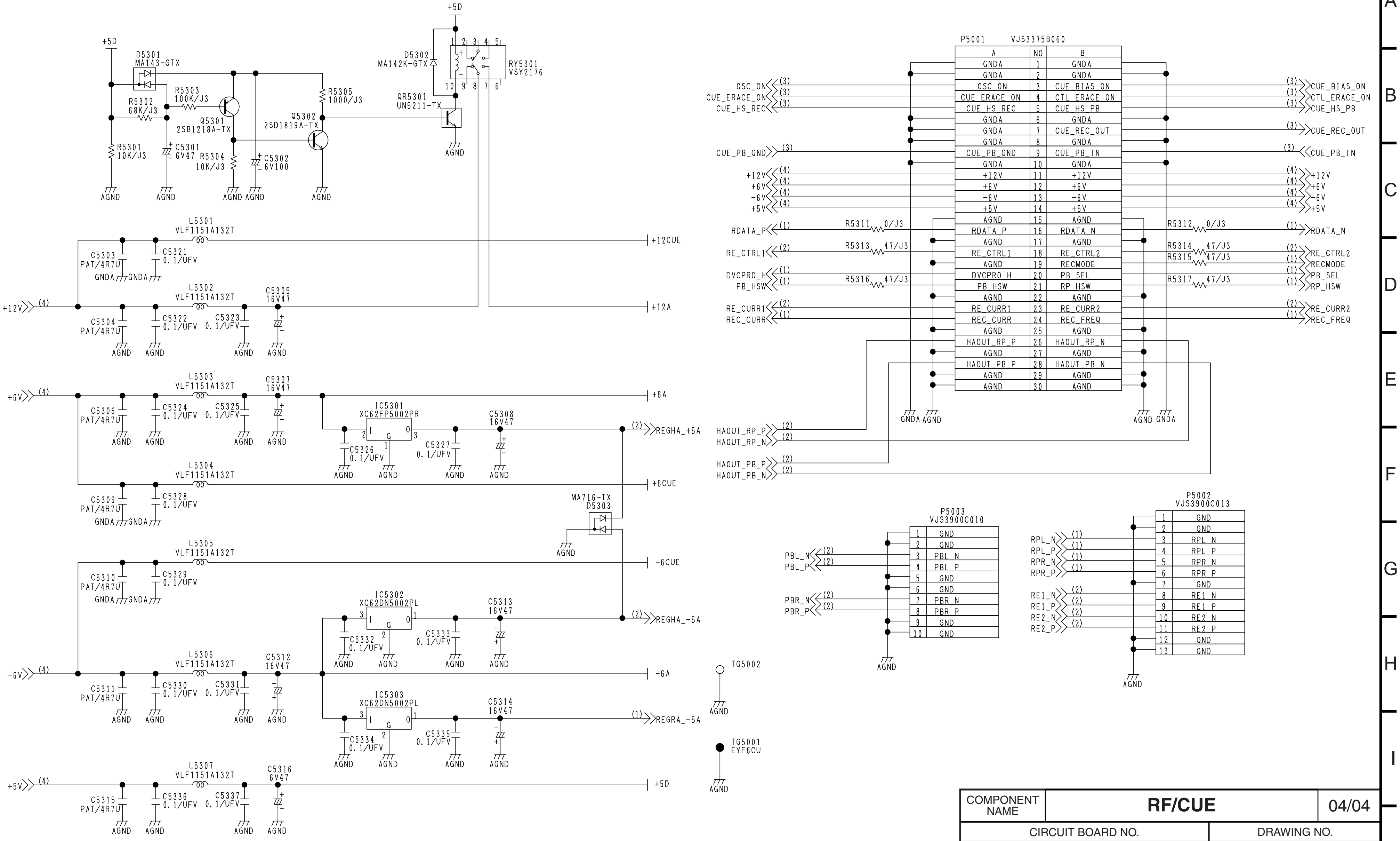
COMPONENT NAME	RF/CUE	02/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85197A	KR5586 (2/4)	
	SCM109	


+12CUE
IC4003 NJM78L09UAT2
C4002 0.1/UFV
C4004 0.1/UFV
C4006 16V22/EHB
BIAS_GND
D4001 MA142K-GTX
QR4001 UN5113-TX
R4003 560/J3
Q4001 2SB779-RTX
C4014 1/UBM
Q4003 2SD874-RTX
R4011 1/J8
R4013 18K/J3
T4001 VLT0729-T
C4030 6800P ECHS1682JZ
C4031 6800P ECHS1682JZ
C4008 16V10/EHB
R4007 3900/J3
C4026 16V22/EHB
L4002 PAT/VLQ0651K181 180U
CUE_ERACE_ON
QR4003 UN5213-TX
C4020 1000P/UV
R4014 39/J3
0/J6 R4023
C4018 0.022/UBV
R4015 PAT/J3
CUE_BIAS_ON
IC4007 NJM78L09UAT2
C4035 0.1/UFV
C4036 0.1/UFV
C4037 16V22/EHB
D4005 MA142K-GTX
QR4007 UN5113-TX
R4034 560/J3
Q4010 2SB779-RTX
C4039 1/UBM
Q4011 2SD874-RTX
R4039 1/J8
R4040 18K/RE7
T4003 VLT0729-T
C4051 6800P ECHS1682JZ
C4052 6800P ECHS1682JZ
C4053 220P/UV
R4049 1000/J3
BIAS
VR4001 50K/VR7
R4052 PAT/J3
C4038 16V10/EHB
R4036 3900/J3
C4049 16V22/EHB
QR4010 UN5213-TX
C4043 1000P/UV
R4041 39/J3
L4005 390U VLQ0651K391
C4041 0.022/UBV
IC4004 PAT/NJM78L09UAT2
C4003 PAT/UFV
C4005 PAT/UFV
C4007 PAT/16V22/EHB
D4002 PAT/MA142K-GTX
Q4002 PAT/2SB779-RTX
R4004 PAT/J3
QR4002 PAT/UN5113-TX
C4017 PAT/UBM
Q4004 PAT/2SD874-RTX
R4012 PAT/J8
R4016 PAT/J3
T4002 PAT/VLT0729-T
C4032 6800P PAT/ECHS1682JZ
C4033 6800P PAT/ECHS1682JZ
C4009 PAT/16V10/EHB
R4008 PAT/J3
C4027 PAT/16V22/EHB
L4003 PAT/VLQ0651K181 180U
CTL_ERACE_ON
QR4004 PAT/UN5213-TX
C4023 PAT/UV
R4018 PAT/J3
R4019 PAT/J3
R4024 0/J6
C4019 PAT/UBV
+6CUE
IC4005 XC62FP5002PR
+A5VC_1
C4010 0.1/UFV
C4015 0.1/UFV
C4021 16V22/EHB
GROUNDB
D4003 MA716-TX
R4028 0/J3
PB_GND
GROUNDB
BIAS_GND
GNDA
IC4006 XC62DN5002PL
-6CUE
C4011 0.1/UFV
C4016 0.1/UFV
C4022 16V22/EHB
-A5VC_1
R4029 10/J6
C4034 0.1/UFV
D4004 MA142K-GTX
RY4001 VSY2176
QR4006 UN5213-TX
OSC_ON
R4027 47K/J3
L4004 180U VLQ0651K181
TP4005 EYF6CU
TP4006 EYF6CU
R4032 10/J3
C4047 0.1/UFN
R4043 22/J3
IC4002 NJM4580V-TE1
FL4001 EIR7QF0126
TP4001 EYF6CU
C4025 2200P/UBV
C4029 PAT/68P
C4028 VCC0030-T 270P
IC4001 NJM4580V-TE1
R4001 1000/J3
CUE_REC_OUT
C4024 16V10/EHP
R4020 8200/J3
R4010 4700/J3
C4012 0.027/UBN
R4009 220/J3
L4001
C4013 8200P/HUB
R4002 820/J3
R4005 820/J3
R4006 10K/J3
R4017 10K/J3
R4021 10K/J3
R4022 4700/J3
Q4005 2SB792-QRTX
R4026 4700/J6
R4025 560/J6
Q4006 2SD1149-RSTX
Q4007 2SD1149-RSTX
QR4005 UN5213-TX
P4001 VJP2278
1 CUE_R/P_HEAD+
2 CUE_R/P_HEAD-
3 CUE_R/P_HEAD_GND
4 CUE_E_HEAD+
5 CUE_E_HEAD-
6 CUE_E_HEAD_GND
7 CTL_E_HEAD+
8 CTL_E_HEAD-
9 CTL_E_HEAD_GND
TP4002 EYF6CU
TP4003 PAT/EYF6CU
R4030 0/J6
R4031 PAT/J6
Q4008 2SD1979-TX
Q4009 2SD1979-TX
R4033 4700/J3
R4035 4700/J3
C4040 150P/UV
R4037 47K/J3
R4038 47/J3
C4042 6V47/EHB
C4048 0.1/UFN
R4042 1000/J3
R4045 120K/J3
C4044 39P/UV
C4050 0.047/UBV
R4044 22/J3
R4046 0/J3
R4048 10K/J3
R4047 10K/J3
PAT/UV C4054
C4055 1/UBM
R4050 10K/J3
CUE_PB_IN
R4051 0/J3
CUE_PB_GND
TG4001 EYF6CU
CUE_HS_PB
CUE_HS_REC
QR4008 UN5113-TX
QR4009 UN5213-TX
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

COMPONENT NAME	RF/CUE	03/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85197A	KR5586 (3/4)	
	SCM110	


+5D
D5301
MA143-GTX
R5303
100K/J3
R5302
68K/J3
Q5301
2SB1218A-TX
R5301
10K/J3
C5301
6V47
R5304
10K/J3
C5302
6V100
R5305
1000/J3
Q5302
2SD1819A-TX
D5302
MA142K-GTX
QR5301
UN5211-TX
RY5301
VSY2176
AGND
L5301
VLF1151A132T
C5303
PAT/4R7U
C5321
0.1/UFV
GNDA
+12CUE
+12V (4)
L5302
VLF1151A132T
C5305
16V47
C5304
PAT/4R7U
C5322
0.1/UFV
C5323
0.1/UFV
+12A
+6V (4)
L5303
VLF1151A132T
C5307
16V47
C5306
PAT/4R7U
C5324
0.1/UFV
C5325
0.1/UFV
+6A
IC5301
XC62FP5002PR
C5326
0.1/UFV
C5327
0.1/UFV
C5308
16V47
(2) REGHA_+5A
L5304
VLF1151A132T
C5309
PAT/4R7U
C5328
0.1/UFV
+6CUE
MA716-TX
D5303
L5305
VLF1151A132T
C5310
PAT/4R7U
C5329
0.1/UFV
-6CUE
IC5302
XC62DN5002PL
C5332
0.1/UFV
C5333
0.1/UFV
C5313
16V47
(2) REGHA_-5A
-6V (4)
L5306
VLF1151A132T
C5312
16V47
C5311
PAT/4R7U
C5330
0.1/UFV
C5331
0.1/UFV
-6A
IC5303
XC62DN5002PL
C5334
0.1/UFV
C5335
0.1/UFV
C5314
16V47
(1) REGRA_-5A
+5V (4)
L5307
VLF1151A132T
C5316
6V47
C5315
PAT/4R7U
C5336
0.1/UFV
C5337
0.1/UFV
+5D
TG5002
TG5001
EYF6CU
P5001 VJS3375B060
A | NO | B
GNDA | 1 | GNDA
GNDA | 2 | GNDA
OSC_ON | 3 | CUE_BIAS_ON
CUE_ERACE_ON | 4 | CTL_ERACE_ON
CUE_HS_REC | 5 | CUE_HS_PB
GNDA | 6 | GNDA
GNDA | 7 | CUE_REC_OUT
GNDA | 8 | GNDA
CUE_PB_GND | 9 | CUE_PB_IN
GNDA | 10 | GNDA
+12V | 11 | +12V
+6V | 12 | +6V
-6V | 13 | -6V
+5V | 14 | +5V
AGND | 15 | AGND
RDATA_P | 16 | RDATA_N
AGND | 17 | AGND
RE_CTRL1 | 18 | RE_CTRL2
AGND | 19 | RECMODE
DVCPRO_H | 20 | PB_SEL
PB_HSW | 21 | RP_HSW
AGND | 22 | AGND
RE_CURR1 | 23 | RE_CURR2
REC_CURR | 24 | REC_FREQ
AGND | 25 | AGND
HAOUT_RP_P | 26 | HAOUT_RP_N
AGND | 27 | AGND
HAOUT_PB_P | 28 | HAOUT_PB_N
AGND | 29 | AGND
AGND | 30 | AGND
OSC_ON (3)
CUE_ERACE_ON (3)
CUE_HS_REC (3)
CUE_PB_GND (3)
+12V (4)
+6V (4)
-6V (4)
+5V (4)
RDATA_P (1)
R5311 0/J3
RE_CTRL1 (2)
R5313 47/J3
DVCPRO_H (1)
PB_HSW (1)
R5316 47/J3
RE_CURR1 (2)
REC_CURR (1)
(3) CUE_BIAS_ON
(3) CTL_ERACE_ON
(3) CUE_HS_PB
(3) CUE_REC_OUT
(3) CUE_PB_IN
(4) +12V
(4) +6V
(4) -6V
(4) +5V
R5312 0/J3
(1) RDATA_N
R5314 47/J3
(2) RE_CTRL2
R5315 47/J3
(1) RECMODE
(1) PB_SEL
R5317 47/J3
(1) RP_HSW
(2) RE_CURR2
(1) REC_FREQ
GNDA AGND
AGND GNDA
HAOUT_RP_P (2)
HAOUT_RP_N (2)
HAOUT_PB_P (2)
HAOUT_PB_N (2)
P5003
VJS3900C010
1 GND
2 GND
3 PBL_N
4 PBL_P
5 GND
6 GND
7 PBR_N
8 PBR_P
9 GND
10 GND
PBL_N (2)
PBL_P (2)
PBR_N (2)
PBR_P (2)
P5002
VJS3900C013
1 GND
2 GND
3 RPL_N
4 RPL_P
5 RPR_N
6 RPR_P
7 GND
8 RE1_N
9 RE1_P
10 RE2_N
11 RE2_P
12 GND
13 GND
RPL_N (1)
RPL_P (1)
RPR_N (1)
RPR_P (1)
RE1_N (2)
RE1_P (2)
RE2_N (2)
RE2_P (2)
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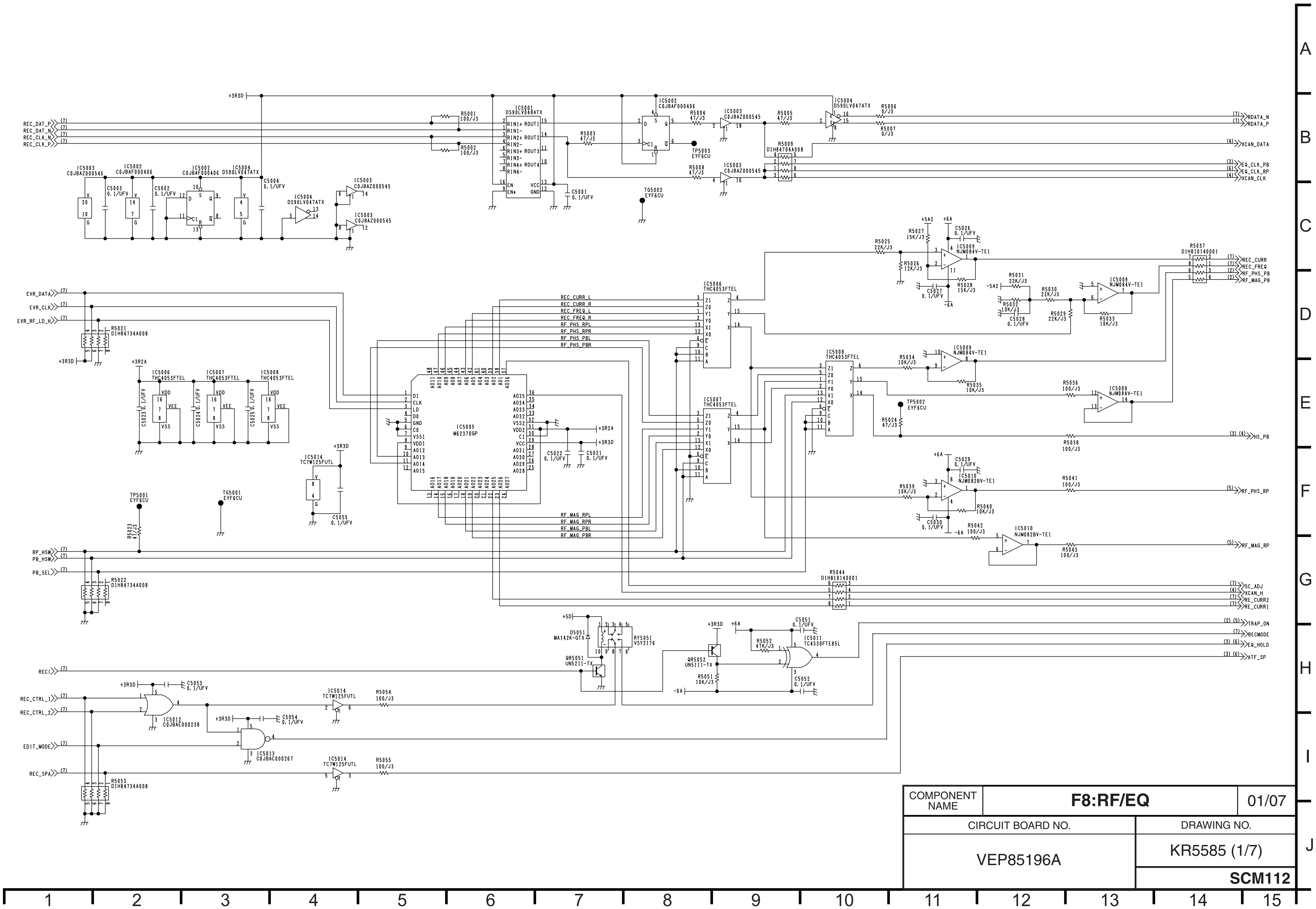
COMPONENT NAME	**RF/CUE**	04/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85197A	KR5586 (4/4)	
	SCM111	


A
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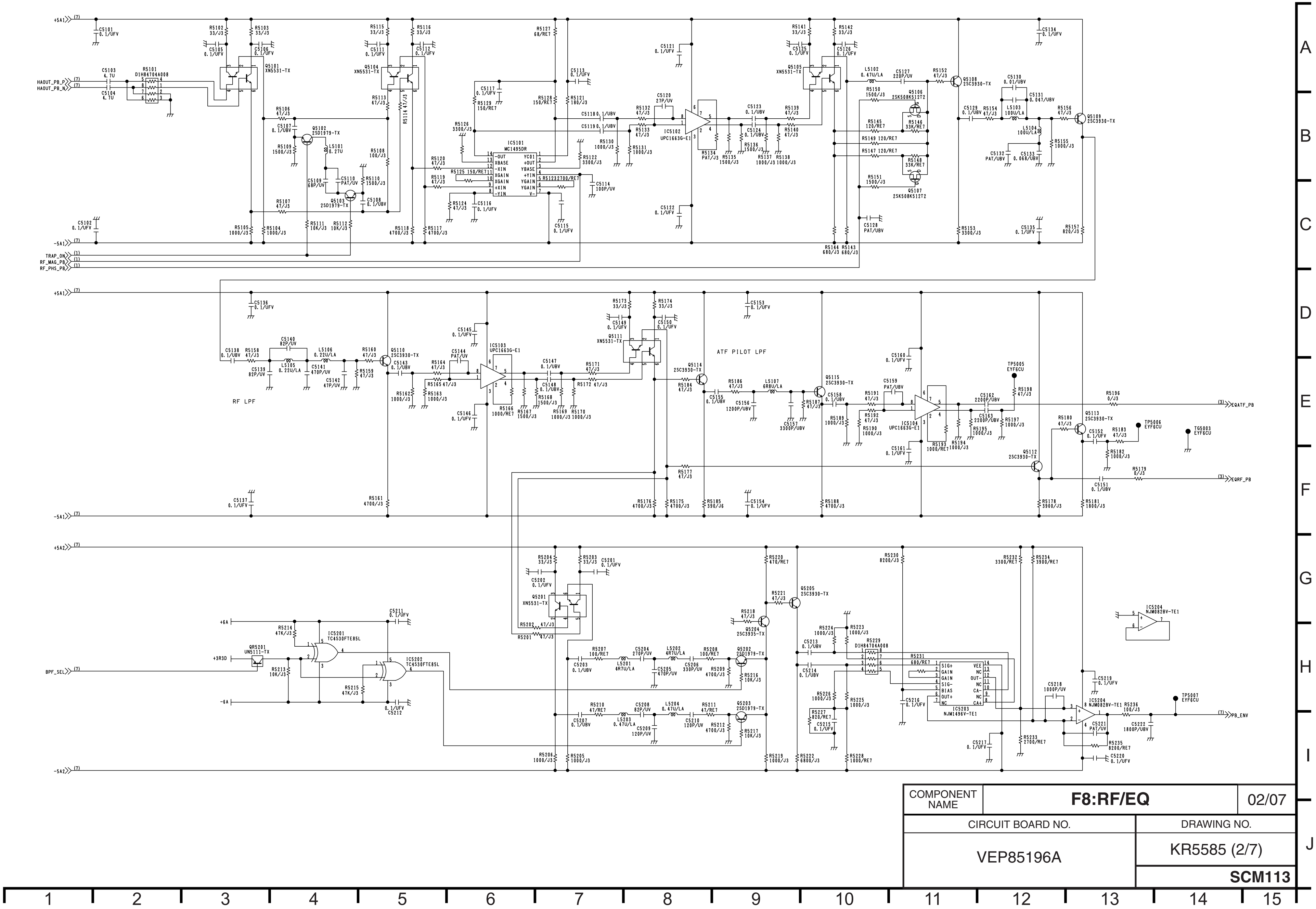
+3R3D
REC_DAT_P
REC_DAT_N
REC_CLK_N
REC_CLK_P
IC5001
DS90LV048ATX
R5001
100/J3
R5002
100/J3
R5003
47/J3
C5001
0.1/UFV
IC5002
C0JBAF000406
R5004
47/J3
IC5003
C0JBAZ000545
R5005
47/J3
IC5004
DS90LV047ATX
R5006
0/J3
R5007
0/J3
R5008
47/J3
R5009
D1H84704A008
TP5003
EYF6CU
TG5002
EYF6CU
RDATA_N
RDATA_P
XCAN_DATA
EQ_CLK_PB
EQ_CLK_RP
XCAN_CLK
C5003
0.1/UFV
C5002
0.1/UFV
C5004
0.1/UFV
EVR_DATA
EVR_CLK
EVR_RF_LD_H
R5021
D1H84734A008
+3R3D
+3R2A
IC5006
THC4053FTEL
IC5007
THC4053FTEL
IC5008
THC4053FTEL
C5023 0.1/UFV
C5024 0.1/UFV
C5025 0.1/UFV
IC5005
M62370GP
REC_CURR_L
REC_CURR_R
REC_FREQ_L
REC_FREQ_R
RF_PHS_RPL
RF_PHS_RPR
RF_PHS_PBL
RF_PHS_PBR
RF_MAG_RPL
RF_MAG_RPR
RF_MAG_PBL
RF_MAG_PBR
C5022
0.1/UFV
C5021
0.1/UFV
+3R2A
+3R2D
IC5014
TC7W125FUTL
C5055
0.1/UFV
TP5001
EYF6CU
TG5001
EYF6CU
R5023
47/J3
+5A2
+6A
R5025
22K/J3
R5026
12K/J3
R5027
15K/J3
C5026
0.1/UFV
IC5009
NJM084V-TE1
C5027
0.1/UFV
R5028
15K/J3
R5031
22K/J3
R5030
22K/J3
R5032
10K/J3
C5028
0.1/UFV
R5029
22K/J3
R5033
10K/J3
R5037
D1H810140001
REC_CURR
REC_FREQ
RF_PHS_PB
RF_MAG_PB
R5034
10K/J3
R5035
10K/J3
R5036
100/J3
TP5002
EYF6CU
R5024
47/J3
R5038
100/J3
HS_PB
C5029
0.1/UFV
IC5010
NJM082BV-TE1
R5039
10K/J3
R5040
10K/J3
R5041
100/J3
RF_PHS_RP
C5030
0.1/UFV
R5042
100/J3
R5043
100/J3
RF_MAG_RP
RP_HSW
PB_HSW
PB_SEL
R5022
D1H84734A008
R5044
D1H810140001
SC_ADJ
XCAN_H
RE_CURR2
RE_CURR1
+5D
D5051
MA142K-GTX
RY5051
VSY2176
QR5051
UN5211-TX
+3R3D
+6A
QR5052
UN5111-TX
R5051
10K/J3
R5052
47K/J3
C5051
0.1/UFV
IC5011
TC4S30FTE85L
C5052
0.1/UFV
TRAP_ON
RECMODE
EQ_HOLD
ATF_SP
REC1
REC_CTRL_1
REC_CTRL_2
EDIT_MODE
REC_SPA
C5053
0.1/UFV
IC5012
C0JBAE000238
R5054
100/J3
C5054
0.1/UFV
IC5013
C0JBAC000267
R5055
100/J3
R5053
D1H84734A008

COMPONENT NAME	F8:RF/EQ	01/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (1/7)	
	SCM112	


+5A1 (7)
-5A1 (7)
+5A2 (7)
-5A2 (7)
HAOUT_PB_P (7)
HAOUT_PB_N (7)
TRAP_ON (1)
RF_MAG_PB (1)
RF_PHS_PB (1)
BPF_SEL (7)
+6A
-6A
+3R3D
(3) EQATF_PB
(3) EQRF_PB
(3) PB_ENV
RF LPF
ATF PILOT LPF
IC5101 MC1495DR
IC5102 UPC1663G-E1
IC5103 UPC1663G-E1
IC5104 UPC1663G-E1
IC5201 TC4530FTE85L
IC5202 TC4530FTE85L
IC5203 NJM1496V-TE1
IC5204 NJM082BV-TE1
Q5101 XN5531-TX
Q5104 XN5531-TX
Q5105 XN5531-TX
Q5111 XN5531-TX
Q5201 XN5531-TX
Q5102 2SD1979-TX
Q5103 2SD1979-TX
Q5106 2SK508K51ZT2
Q5107 2SK508K51ZT2
Q5108 2SC3930-TX
Q5109 2SC3930-TX
Q5110 2SC3930-TX
Q5112 2SC3930-TX
Q5113 2SC3930-TX
Q5114 2SC3930-TX
Q5115 2SC3930-TX
Q5202 2SD1979-TX
Q5203 2SD1979-TX
Q5204 2SC3935-TX
Q5205 2SC3930-TX
QR5201 UN5111-TX
R5101 D1H84704A008
R5229 D1H84704A008
TP5005 EYF6CU
TP5006 EYF6CU
TP5007 EYF6CU
TG5003 EYF6CU
A
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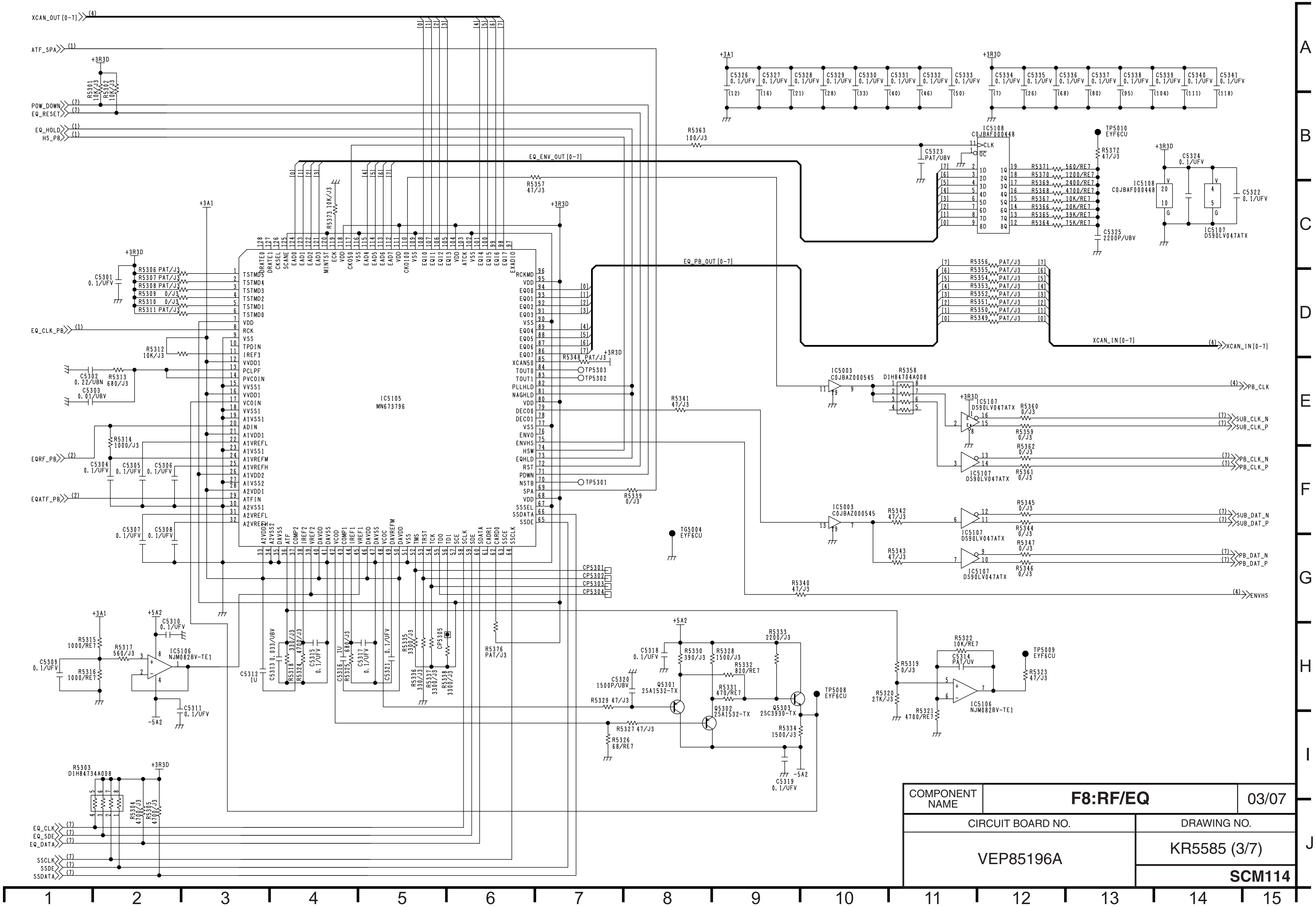
COMPONENT NAME	F8:RF/EQ	02/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (2/7)	
	SCM113	


XCAN_OUT[0-7]
ATF_SPA
POW_DOWN
EQ_RESET
EQ_HOLD
HS_PB
EQ_CLK_PB
EQRF_PB
EQATF_PB
EQ_ENV_OUT[0-7]
EQ_PB_OUT[0-7]
XCAN_IN[0-7]
PB_CLK
SUB_CLK_N
SUB_CLK_P
PB_CLK_N
PB_CLK_P
SUB_DAT_N
SUB_DAT_P
PB_DAT_N
PB_DAT_P
ENVHS
EQ_CLK
EQ_SDE
EQ_DATA
SSCLK
SSDE
SSDATA
+3R3D
+3A1
+5A2
-5A2
IC5105
MN673796
IC5108
C0JBAF000448
IC5107
DS90LV047ATX
IC5003
C0JBAZ000545
IC5106
NJM082BV-TE1
Q5301
2SA1532-TX
Q5302
2SA1532-TX
Q5303
2SC3930-TX
R5303
D1H84734A008
R5358
D1H84704A008
TP5010
TP5009
TP5008
TP5301
TP5302
TP5303
TG5004
EYF6CU
CP5301
CP5302
CP5303
CP5304
CP5305
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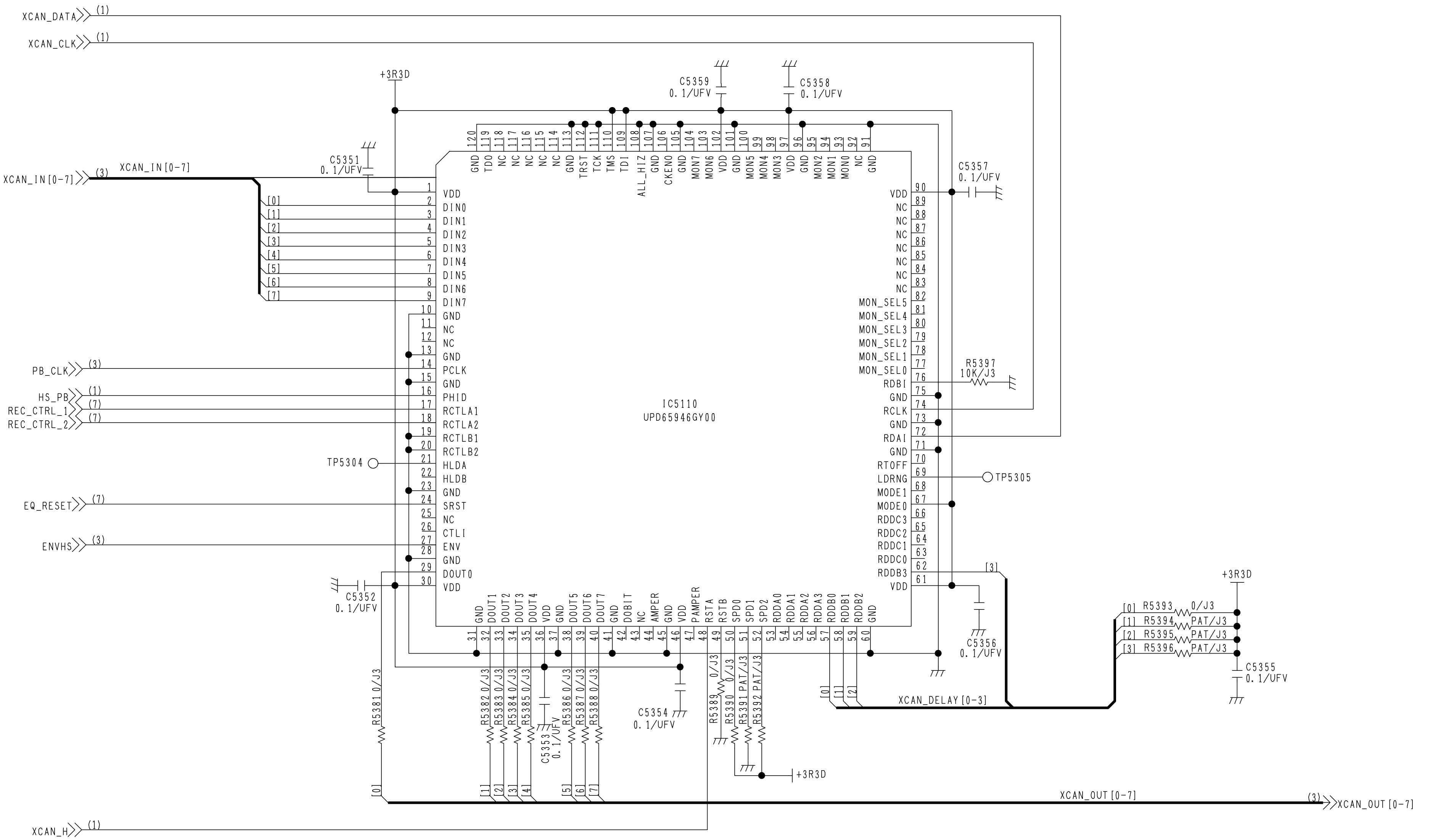
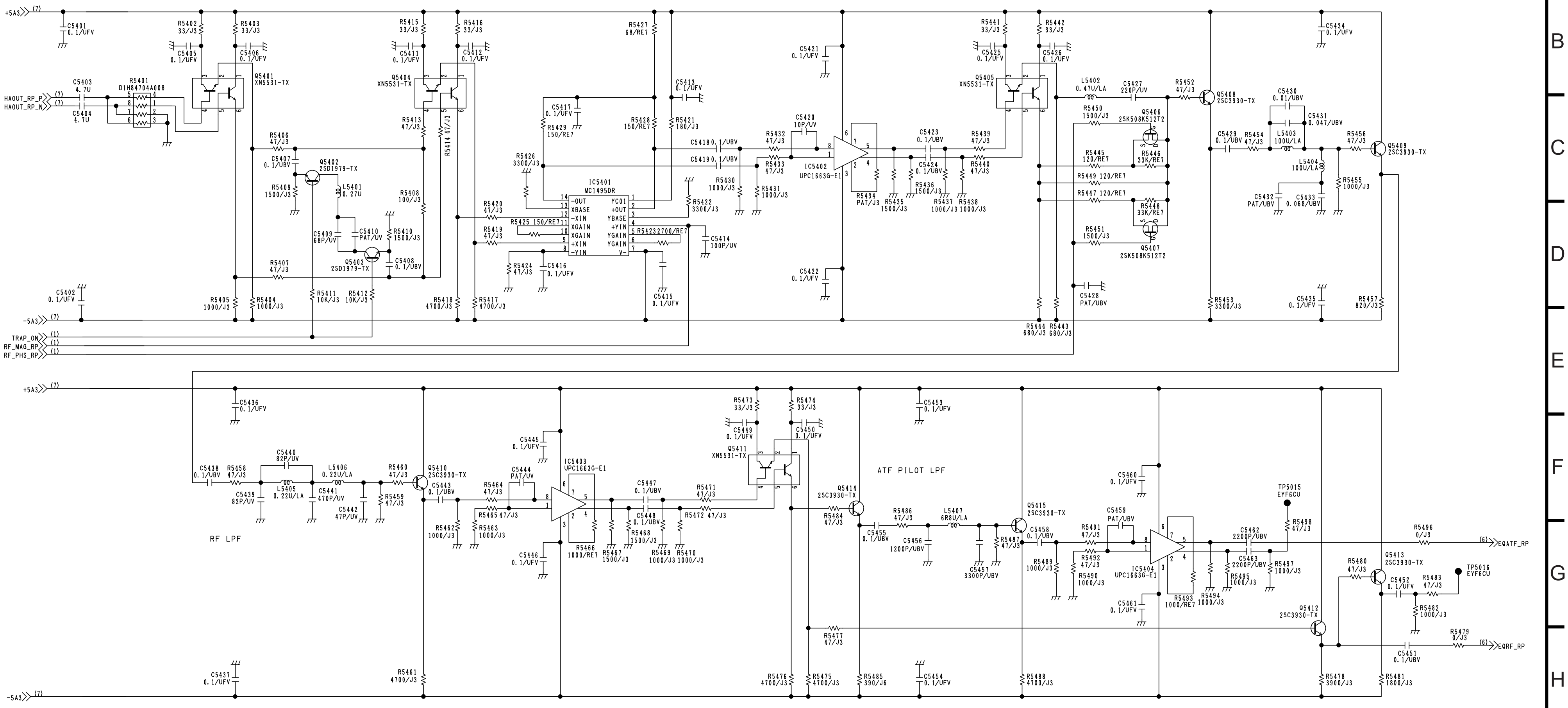
COMPONENT NAME	F8:RF/EQ	03/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (3/7)
		SCM114



XCAN_DATA (1)
XCAN_CLK (1)
XCAN_IN[0-7] (3)
XCAN_IN[0-7]
PB_CLK (3)
HS_PB (1)
REC_CTRL_1 (7)
REC_CTRL_2 (7)
TP5304
EQ_RESET (7)
ENVHS (3)
XCAN_H (1)
+3R3D
C5351 0.1/UFV
C5352 0.1/UFV
C5353 0.1/UFV
C5354 0.1/UFV
C5355 0.1/UFV
C5356 0.1/UFV
C5357 0.1/UFV
C5358 0.1/UFV
C5359 0.1/UFV
IC5110
UPD65946GY00
1 VDD
2 DIN0
3 DIN1
4 DIN2
5 DIN3
6 DIN4
7 DIN5
8 DIN6
9 DIN7
10 GND
11 NC
12 NC
13 GND
14 PCLK
15 GND
16 PHID
17 RCTLA1
18 RCTLA2
19 RCTLB1
20 RCTLB2
21 HLDA
22 HLDB
23 GND
24 SRST
25 NC
26 CTLI
27 ENV
28 GND
29 DOUT0
30 VDD
31 GND
32 DOUT1
33 DOUT2
34 DOUT3
35 DOUT4
36 VDD
37 GND
38 DOUT5
39 DOUT6
40 DOUT7
41 GND
42 DOBIT
43 NC
44 AMPER
45 GND
46 VDD
47 PAMPER
48 RSTA
49 RSTB
50 SPD0
51 SPD1
52 SPD2
53 RDDA0
54 RDDA1
55 RDDA2
56 RDDA3
57 RDDB0
58 RDDB1
59 RDDB2
60 GND
61 VDD
62 RDDB3
63 RDDC0
64 RDDC1
65 RDDC2
66 RDDC3
67 MODE0
68 MODE1
69 LDRNG
70 RTOFF
71 GND
72 RDAI
73 GND
74 RCLK
75 GND
76 RDBI
77 MON_SEL0
78 MON_SEL1
79 MON_SEL2
80 MON_SEL3
81 MON_SEL4
82 MON_SEL5
83 NC
84 NC
85 NC
86 NC
87 NC
88 NC
89 NC
90 VDD
91 GND
92 NC
93 MON0
94 MON1
95 MON2
96 GND
97 VDD
98 MON3
99 MON4
100 MON5
101 GND
102 VDD
103 MON6
104 MON7
105 GND
106 CKEN0
107 GND
108 ALL_HIZ
109 TDI
110 TMS
111 TCK
112 TRST
113 GND
114 NC
115 NC
116 NC
117 NC
118 NC
119 TDO
120 GND
R5397 10K/J3
TP5305
[3]
R5393 0/J3
R5394 PAT/J3
R5395 PAT/J3
R5396 PAT/J3
XCAN_DELAY[0-3]
R5381 0/J3
R5382 0/J3
R5383 0/J3
R5384 0/J3
R5385 0/J3
R5386 0/J3
R5387 0/J3
R5388 0/J3
R5389 0/J3
R5390 0/J3
R5391 PAT/J3
R5392 PAT/J3
XCAN_OUT[0-7]
(3) XCAN_OUT[0-7]

COMPONENT NAME	**F8:RF/EQ**	04/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (4/7)
		SCM115


+5A3
(7)
C5401 0.1/UFV
R5402 33/J3
R5403 33/J3
C5405 0.1/UFV
C5406 0.1/UFV
C5403 4.7U
R5401 D1H84704A008
HAOUT_RP_P
HAOUT_RP_N
C5404 4.7U
Q5401 XN5531-TX
R5406 47/J3
C5407 0.1/UBV
Q5402 2SD1979-TX
L5401 0.27U
R5409 1500/J3
C5409 68P/UV
C5410 PAT/UV
R5410 1500/J3
Q5403 2SD1979-TX
C5408 0.1/UBV
R5407 47/J3
R5408 100/J3
R5415 33/J3
R5416 33/J3
C5411 0.1/UFV
C5412 0.1/UFV
Q5404 XN5531-TX
R5413 47/J3
R5414 47/J3
C5402 0.1/UFV
-5A3
TRAP_ON
RF_MAG_RP
RF_PHS_RP
R5405 1000/J3
R5404 1000/J3
R5411 10K/J3
R5412 10K/J3
R5418 4700/J3
R5417 4700/J3
R5427 68/RE7
C5417 0.1/UFV
R5429 150/RE7
R5428 150/RE7
R5421 180/J3
C5413 0.1/UFV
R5426 3300/J3
IC5401 MC1495DR
-OUT
XBASE
-XIN
XGAIN
XGAIN
+XIN
-YIN
YC01
+OUT
YBASE
+YIN
YGAIN
YGAIN
V-
R5420 47/J3
R5425 150/RE7
R5419 47/J3
R5424 47/J3
C5416 0.1/UFV
R5423 2700/RE7
R5422 3300/J3
C5414 100P/UV
C5415 0.1/UFV
C5418 0.1/UBV
C5419 0.1/UBV
R5430 1000/J3
R5431 1000/J3
R5432 47/J3
R5433 47/J3
C5420 10P/UV
C5421 0.1/UFV
IC5402 UPC1663G-E1
C5422 0.1/UFV
R5434 PAT/J3
R5435 1500/J3
C5423 0.1/UBV
C5424 0.1/UBV
R5436 1500/J3
R5437 1000/J3
R5438 1000/J3
R5439 47/J3
R5440 47/J3
R5441 33/J3
R5442 33/J3
C5425 0.1/UFV
C5426 0.1/UFV
Q5405 XN5531-TX
L5402 0.47U/LA
C5427 220P/UV
R5450 1500/J3
Q5406 2SK508K512T2
R5445 120/RE7
R5446 33K/RE7
R5449 120/RE7
R5447 120/RE7
R5448 33K/RE7
R5451 1500/J3
Q5407 2SK508K512T2
C5428 PAT/UBV
R5444 680/J3
R5443 680/J3
R5452 47/J3
Q5408 2SC3930-TX
C5430 0.01/UBV
C5431 0.047/UBV
C5429 0.1/UBV
R5454 47/J3
L5403 100U/LA
L5404 100U/LA
C5432 PAT/UBV
C5433 0.068/UBV
R5455 1000/J3
R5456 47/J3
Q5409 2SC3930-TX
C5434 0.1/UFV
R5453 3300/J3
C5435 0.1/UFV
R5457 820/J3
C5436 0.1/UFV
C5438 0.1/UBV
R5458 47/J3
C5440 82P/UV
L5405 0.22U/LA
L5406 0.22U/LA
C5439 82P/UV
C5441 470P/UV
C5442 47P/UV
R5459 47/J3
R5460 47/J3
Q5410 2SC3930-TX
RF LPF
C5437 0.1/UFV
R5461 4700/J3
C5443 0.1/UBV
R5462 1000/J3
R5464 47/J3
R5465 47/J3
R5463 1000/J3
C5444 PAT/UV
C5445 0.1/UFV
IC5403 UPC1663G-E1
C5446 0.1/UFV
R5466 1000/RE7
R5467 1500/J3
C5447 0.1/UBV
C5448 0.1/UBV
R5468 1500/J3
R5469 1000/J3
R5470 1000/J3
R5471 47/J3
R5472 47/J3
R5473 33/J3
R5474 33/J3
C5449 0.1/UFV
C5450 0.1/UFV
Q5411 XN5531-TX
R5476 4700/J3
R5475 4700/J3
R5477 47/J3
Q5414 2SC3930-TX
R5484 47/J3
ATF PILOT LPF
C5453 0.1/UFV
C5455 0.1/UBV
R5486 47/J3
C5456 1200P/UBV
L5407 6R8U/LA
C5457 3300P/UBV
R5487 47/J3
R5485 390/J6
C5454 0.1/UFV
Q5415 2SC3930-TX
C5458 0.1/UBV
R5489 1000/J3
R5491 47/J3
R5492 47/J3
R5490 1000/J3
C5459 PAT/UBV
C5460 0.1/UFV
IC5404 UPC1663G-E1
C5461 0.1/UFV
R5493 1000/RE7
R5494 1000/J3
R5495 1000/J3
C5462 2200P/UBV
C5463 2200P/UBV
R5497 1000/J3
TP5015 EYF6CU
R5498 47/J3
R5488 4700/J3
R5496 0/J3
EQATF_RP
R5480 47/J3
Q5413 2SC3930-TX
C5452 0.1/UFV
R5483 47/J3
TP5016 EYF6CU
R5482 1000/J3
Q5412 2SC3930-TX
R5479 0/J3
C5451 0.1/UBV
EQRF_RP
R5478 3900/J3
R5481 1800/J3
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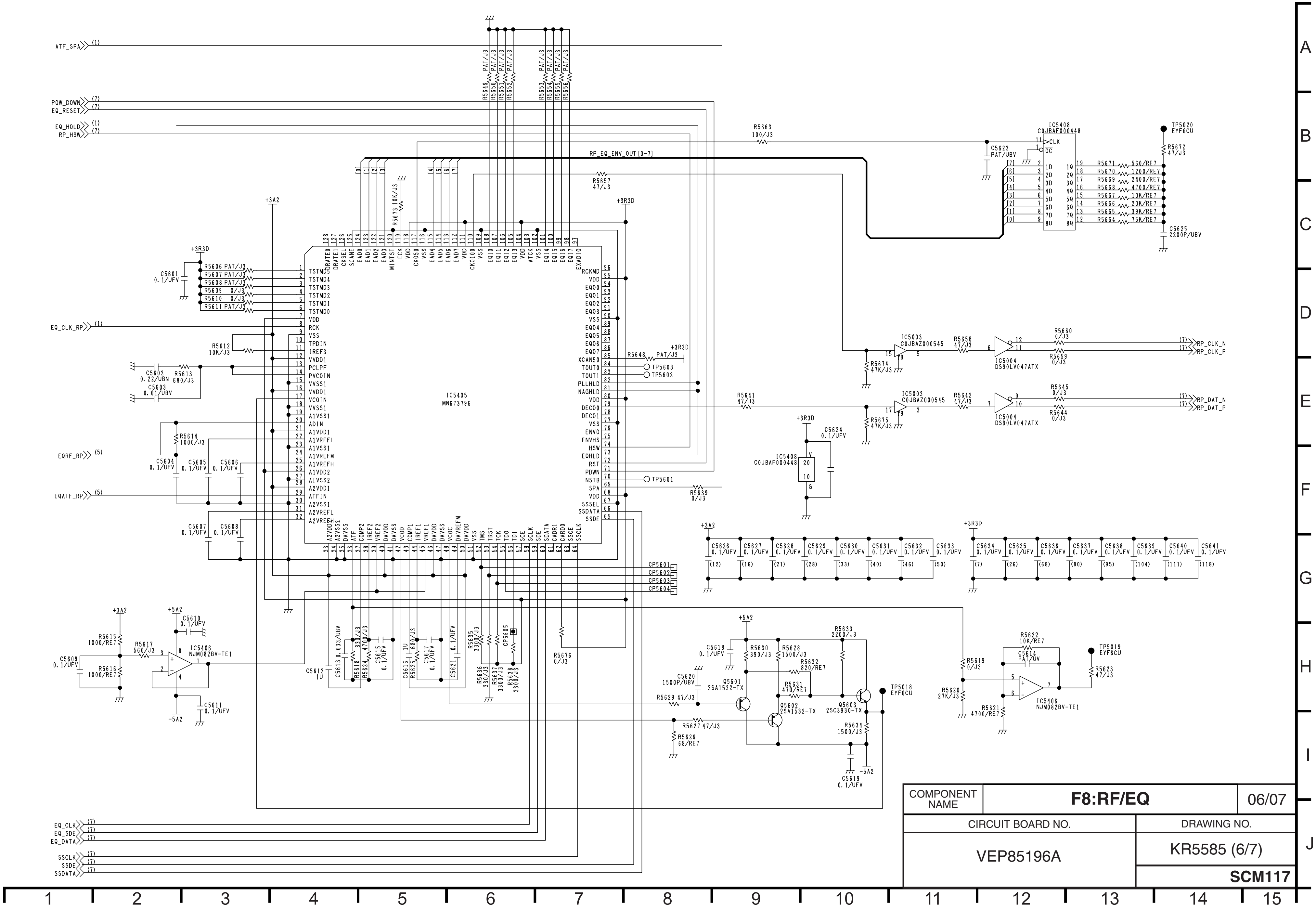
COMPONENT NAME	F8:RF/EQ	05/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (5/7)	
	SCM116	


ATF_SPA (1)
POW_DOWN (7)
EQ_RESET (7)
EQ_HOLD (1)
RP_HSW (7)
EQ_CLK_RP (1)
EQRF_RP (5)
EQATF_RP (5)
EQ_CLK (7)
EQ_SDE (7)
EQ_DATA (7)
SSCLK (7)
SSDE (7)
SSDATA (7)
RP_EQ_ENV_OUT[0-7]
IC5405
MN673796
IC5408
C0JBAF000448
IC5003
C0JBAZ000545
IC5004
DS90LV047ATX
IC5406
NJM082BV-TE1
Q5601
2SA1532-TX
Q5602
2SA1532-TX
Q5603
2SC3930-TX
TP5020
EYF6CU
TP5019
EYF6CU
TP5018
EYF6CU
TP5601
TP5602
TP5603
CP5601
CP5602
CP5603
CP5604
CP5605
RP_CLK_N
RP_CLK_P
RP_DAT_N
RP_DAT_P
+3A2
+3R3D
+5A2
-5A2
R5663 100/J3
C5623 PAT/UBV
R5672 47/J3
C5625 2200P/UBV
R5671 560/RE7
R5670 1200/RE7
R5669 2400/RE7
R5668 4700/RE7
R5667 10K/RE7
R5666 20K/RE7
R5665 39K/RE7
R5664 75K/RE7
R5657 47/J3
R5673 10K/J3
R5658 47/J3
R5660 0/J3
R5659 0/J3
R5674 47K/J3
R5641 47/J3
R5642 47/J3
R5645 0/J3
R5644 0/J3
R5675 47K/J3
C5624 0.1/UFV
R5648 PAT/J3
R5639 0/J3
R5606 PAT/J3
R5607 PAT/J3
R5608 PAT/J3
R5609 0/J3
R5610 0/J3
R5611 PAT/J3
C5601 0.1/UFV
R5612 10K/J3
C5602 0.22/UBN
R5613 680/J3
C5603 0.01/UBV
R5614 1000/J3
C5604 0.1/UFV
C5605 0.1/UFV
C5606 0.1/UFV
C5607 0.1/UFV
C5608 0.1/UFV
R5649 PAT/J3
R5650 PAT/J3
R5651 PAT/J3
R5652 PAT/J3
R5653 PAT/J3
R5654 PAT/J3
R5655 PAT/J3
R5656 PAT/J3
C5626 0.1/UFV
C5627 0.1/UFV
C5628 0.1/UFV
C5629 0.1/UFV
C5630 0.1/UFV
C5631 0.1/UFV
C5632 0.1/UFV
C5633 0.1/UFV
C5634 0.1/UFV
C5635 0.1/UFV
C5636 0.1/UFV
C5637 0.1/UFV
C5638 0.1/UFV
C5639 0.1/UFV
C5640 0.1/UFV
C5641 0.1/UFV
R5615 1000/RE7
R5616 1000/RE7
R5617 560/J3
C5609 0.1/UFV
C5610 0.1/UFV
C5611 0.1/UFV
C5612 1U
C5613 0.033/UBV
R5618 330/J3
R5624 4700/J3
C5615 0.1/UFV
C5616 1U
R5625 680/J3
C5617 0.1/UFV
C5621 0.1/UFV
R5635 3300/J3
R5636 330/J3
R5637 3300/J3
R5638 3300/J3
R5676 0/J3
C5618 0.1/UFV
C5620 1500P/UBV
R5629 47/J3
R5630 390/J3
R5628 1500/J3
R5632 820/RE7
R5631 470/RE7
R5633 2200/J3
R5627 47/J3
R5626 68/RE7
R5634 1500/J3
C5619 0.1/UFV
R5619 0/J3
R5620 27K/J3
R5621 4700/RE7
R5622 10K/RE7
C5614 PAT/UV
R5623 47/J3
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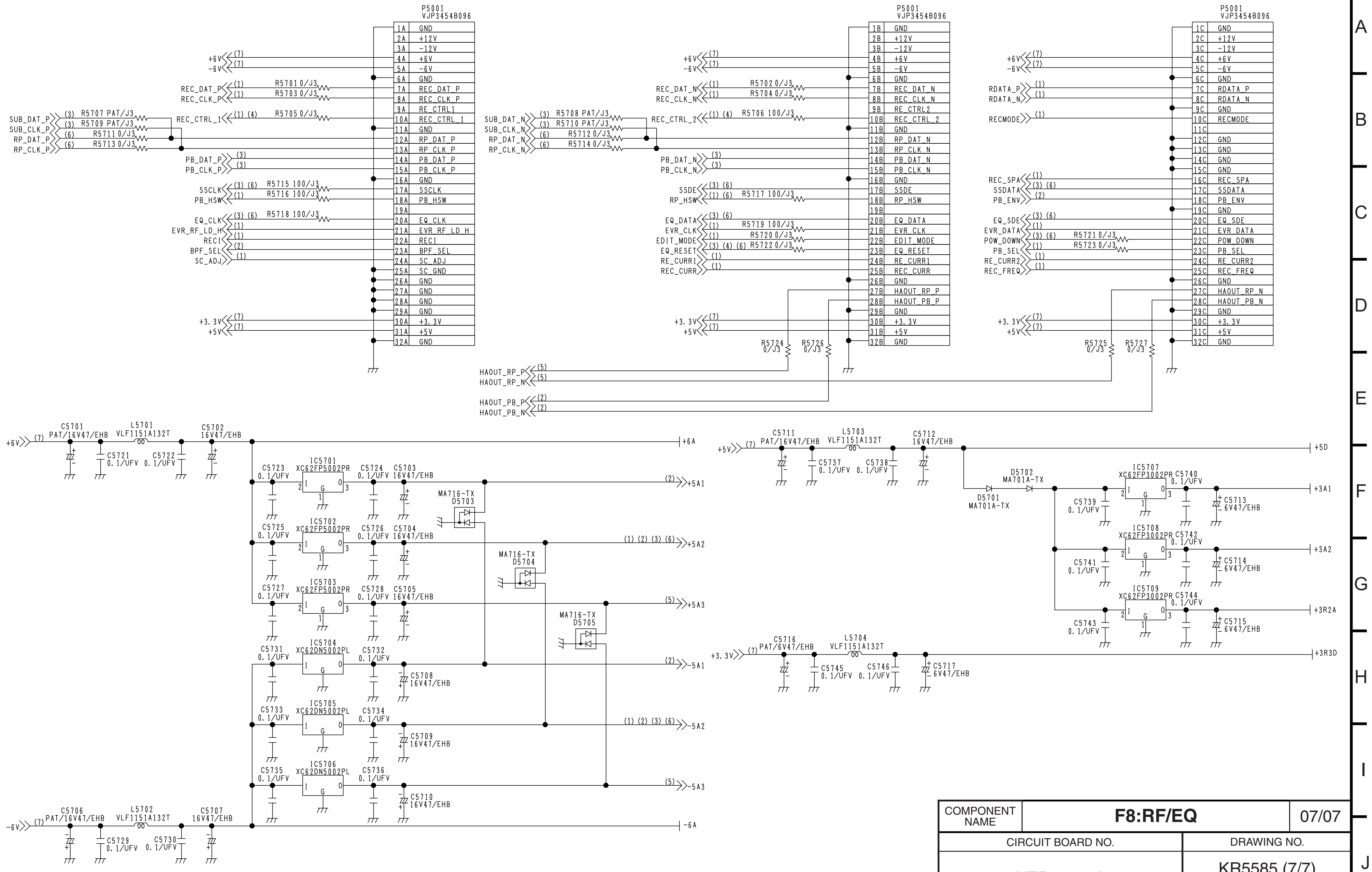
COMPONENT NAME	F8:RF/EQ	06/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (6/7)	
	SCM117	


P5001
VJP3454B096
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A GND
7A REC_DAT_P
8A REC_CLK_P
9A RE_CTRL1
10A REC_CTRL_1
11A GND
12A RP_DAT_P
13A RP_CLK_P
14A PB_DAT_P
15A PB_CLK_P
16A GND
17A SSCLK
18A PB_HSW
19A
20A EQ_CLK
21A EVR_RF_LD_H
22A RECI
23A BPF_SEL
24A SC_ADJ
25A SC_GND
26A GND
27A GND
28A GND
29A GND
30A +3.3V
31A +5V
32A GND
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B GND
7B REC_DAT_N
8B REC_CLK_N
9B RE_CTRL2
10B REC_CTRL_2
11B GND
12B RP_DAT_N
13B RP_CLK_N
14B PB_DAT_N
15B PB_CLK_N
16B GND
17B SSDE
18B RP_HSW
19B
20B EQ_DATA
21B EVR_CLK
22B EDIT_MODE
23B EQ_RESET
24B RE_CURR1
25B REC_CURR
26B GND
27B HAOUT_RP_P
28B HAOUT_PB_P
29B GND
30B +3.3V
31B +5V
32B GND
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C GND
7C RDATA_P
8C RDATA_N
9C GND
10C RECMODE
11C
12C GND
13C GND
14C GND
15C GND
16C REC_SPA
17C SSDATA
18C PB_ENV
19C GND
20C EQ_SDE
21C EVR_DATA
22C POW_DOWN
23C PB_SEL
24C RE_CURR2
25C REC_FREQ
26C GND
27C HAOUT_RP_N
28C HAOUT_PB_N
29C GND
30C +3.3V
31C +5V
32C GND
R5701 0/J3
R5703 0/J3
R5705 0/J3
R5707 PAT/J3
R5709 PAT/J3
R5711 0/J3
R5713 0/J3
R5715 100/J3
R5716 100/J3
R5718 100/J3
R5702 0/J3
R5704 0/J3
R5706 100/J3
R5708 PAT/J3
R5710 PAT/J3
R5712 0/J3
R5714 0/J3
R5717 100/J3
R5719 100/J3
R5720 0/J3
R5722 0/J3
R5721 0/J3
R5723 0/J3
R5724 0/J3
R5726 0/J3
R5725 0/J3
R5727 0/J3
SUB_DAT_P
SUB_CLK_P
RP_DAT_P
RP_CLK_P
SUB_DAT_N
SUB_CLK_N
RP_DAT_N
RP_CLK_N
HAOUT_RP_P
HAOUT_RP_N
HAOUT_PB_P
HAOUT_PB_N
C5701 PAT/16V47/EHB
L5701 VLF1151A132T
C5702 16V47/EHB
C5721 0.1/UFV
C5722 0.1/UFV
+6A
IC5701 XC62FP5002PR
IC5702 XC62FP5002PR
IC5703 XC62FP5002PR
IC5704 XC62DN5002PL
IC5705 XC62DN5002PL
IC5706 XC62DN5002PL
C5703 16V47/EHB
C5704 16V47/EHB
C5705 16V47/EHB
C5708 16V47/EHB
C5709 16V47/EHB
C5710 16V47/EHB
MA716-TX D5703
MA716-TX D5704
MA716-TX D5705
+5A1
+5A2
+5A3
-5A1
-5A2
-5A3
C5706 PAT/16V47/EHB
L5702 VLF1151A132T
C5707 16V47/EHB
C5729 0.1/UFV
C5730 0.1/UFV
-6A
C5711 PAT/16V47/EHB
L5703 VLF1151A132T
C5712 16V47/EHB
C5737 0.1/UFV
C5738 0.1/UFV
+5D
D5702 MA701A-TX
D5701 MA701A-TX
IC5707 XC62FP3002PR
IC5708 XC62FP3002PR
IC5709 XC62FP3002PR
C5713 6V47/EHB
C5714 6V47/EHB
C5715 6V47/EHB
+3A1
+3A2
+3R2A
C5716 PAT/6V47/EHB
L5704 VLF1151A132T
C5745 0.1/UFV
C5746 0.1/UFV
C5717 6V47/EHB
+3R3D
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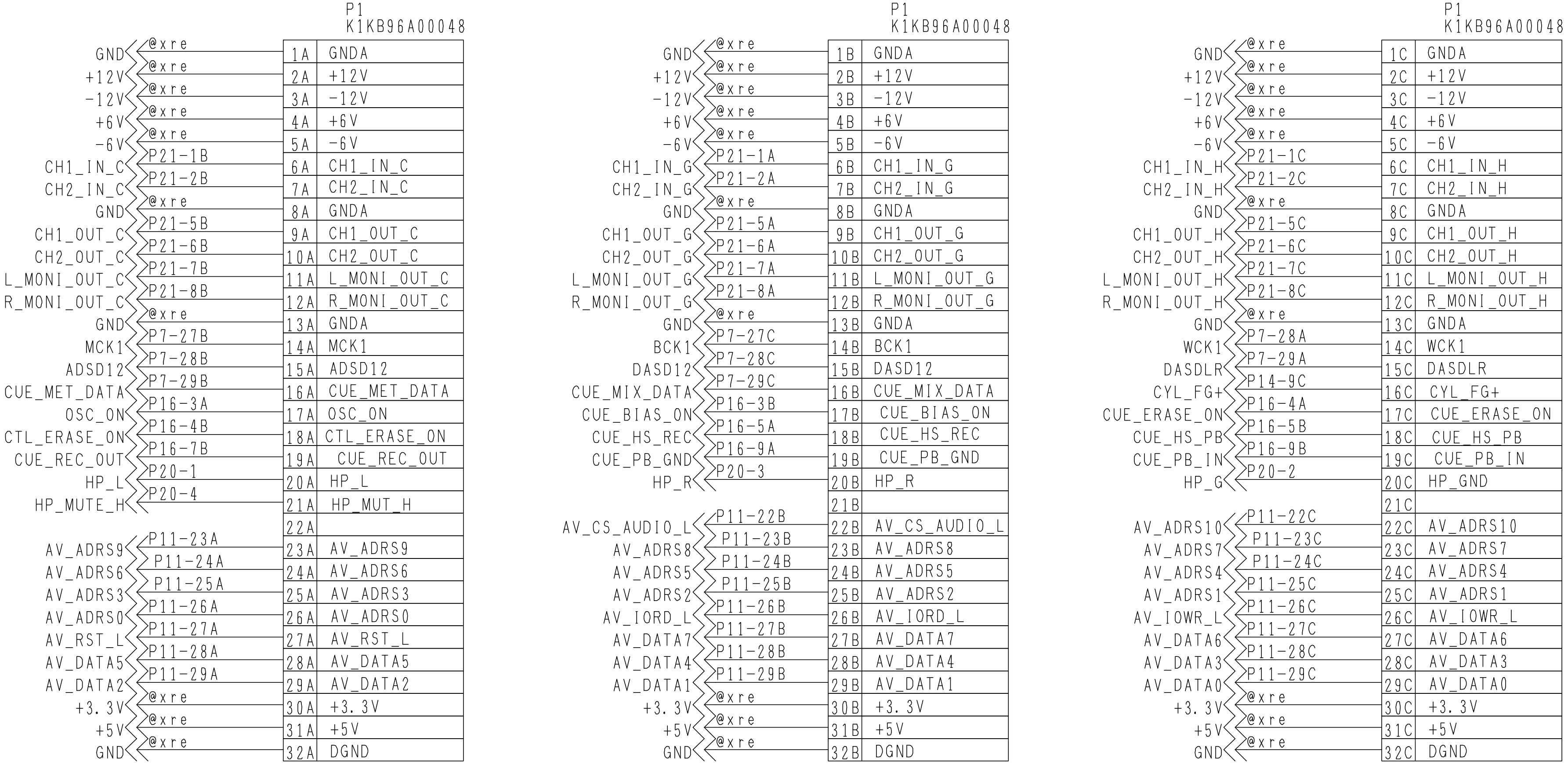
COMPONENT NAME	F8:RF/EQ		07/07
CIRCUIT BOARD NO.		DRAWING NO.	
VEP85196A		KR5585 (7/7)	
		SCM118	

F1 (AUDIO)



P1
K1KB96A00048

Signal	Link	Pin	Name
GND	@xre	1A	GNDA
+12V	@xre	2A	+12V
-12V	@xre	3A	-12V
+6V	@xre	4A	+6V
-6V	@xre	5A	-6V
CH1_IN_C	P21-1B	6A	CH1_IN_C
CH2_IN_C	P21-2B	7A	CH2_IN_C
GND	@xre	8A	GNDA
CH1_OUT_C	P21-5B	9A	CH1_OUT_C
CH2_OUT_C	P21-6B	10A	CH2_OUT_C
L_MONI_OUT_C	P21-7B	11A	L_MONI_OUT_C
R_MONI_OUT_C	P21-8B	12A	R_MONI_OUT_C
GND	@xre	13A	GNDA
MCK1	P7-27B	14A	MCK1
ADSD12	P7-28B	15A	ADSD12
CUE_MET_DATA	P7-29B	16A	CUE_MET_DATA
OSC_ON	P16-3A	17A	OSC_ON
CTL_ERASE_ON	P16-4B	18A	CTL_ERASE_ON
CUE_REC_OUT	P16-7B	19A	CUE_REC_OUT
HP_L	P20-1	20A	HP_L
HP_MUTE_H	P20-4	21A	HP_MUT_H
		22A	
AV_ADRS9	P11-23A	23A	AV_ADRS9
AV_ADRS6	P11-24A	24A	AV_ADRS6
AV_ADRS3	P11-25A	25A	AV_ADRS3
AV_ADRS0	P11-26A	26A	AV_ADRS0
AV_RST_L	P11-27A	27A	AV_RST_L
AV_DATA5	P11-28A	28A	AV_DATA5
AV_DATA2	P11-29A	29A	AV_DATA2
+3.3V	@xre	30A	+3.3V
+5V	@xre	31A	+5V
GND	@xre	32A	DGND

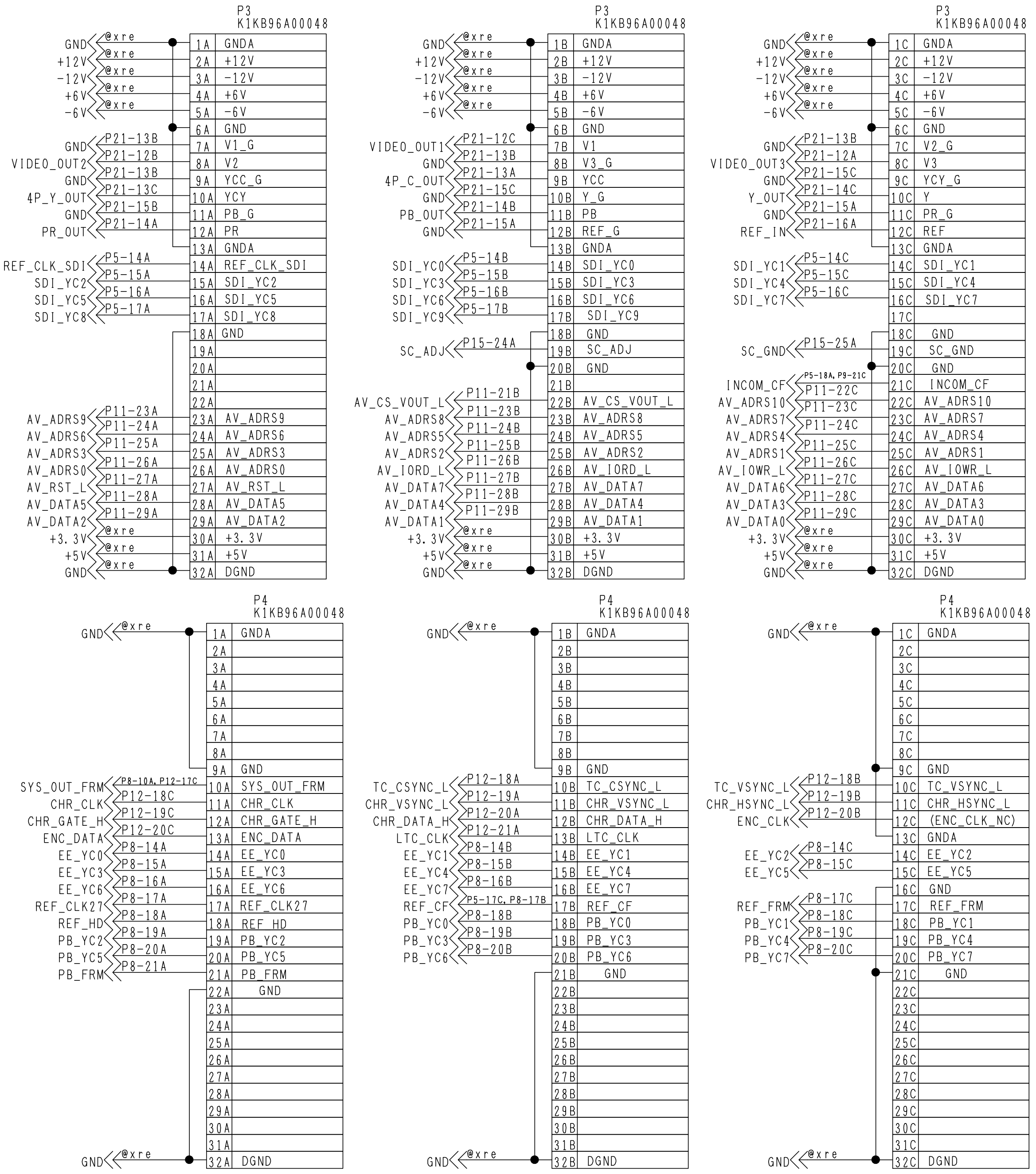
P1
K1KB96A00048

Signal	Link	Pin	Name
GND	@xre	1B	GNDA
+12V	@xre	2B	+12V
-12V	@xre	3B	-12V
+6V	@xre	4B	+6V
-6V	@xre	5B	-6V
CH1_IN_G	P21-1A	6B	CH1_IN_G
CH2_IN_G	P21-2A	7B	CH2_IN_G
GND	@xre	8B	GNDA
CH1_OUT_G	P21-5A	9B	CH1_OUT_G
CH2_OUT_G	P21-6A	10B	CH2_OUT_G
L_MONI_OUT_G	P21-7A	11B	L_MONI_OUT_G
R_MONI_OUT_G	P21-8A	12B	R_MONI_OUT_G
GND	@xre	13B	GNDA
BCK1	P7-27C	14B	BCK1
DASD12	P7-28C	15B	DASD12
CUE_MIX_DATA	P7-29C	16B	CUE_MIX_DATA
CUE_BIAS_ON	P16-3B	17B	CUE_BIAS_ON
CUE_HS_REC	P16-5A	18B	CUE_HS_REC
CUE_PB_GND	P16-9A	19B	CUE_PB_GND
HP_R	P20-3	20B	HP_R
		21B	
AV_CS_AUDIO_L	P11-22B	22B	AV_CS_AUDIO_L
AV_ADRS8	P11-23B	23B	AV_ADRS8
AV_ADRS5	P11-24B	24B	AV_ADRS5
AV_ADRS2	P11-25B	25B	AV_ADRS2
AV_IORD_L	P11-26B	26B	AV_IORD_L
AV_DATA7	P11-27B	27B	AV_DATA7
AV_DATA4	P11-28B	28B	AV_DATA4
AV_DATA1	P11-29B	29B	AV_DATA1
+3.3V	@xre	30B	+3.3V
+5V	@xre	31B	+5V
GND	@xre	32B	DGND

P1
K1KB96A00048

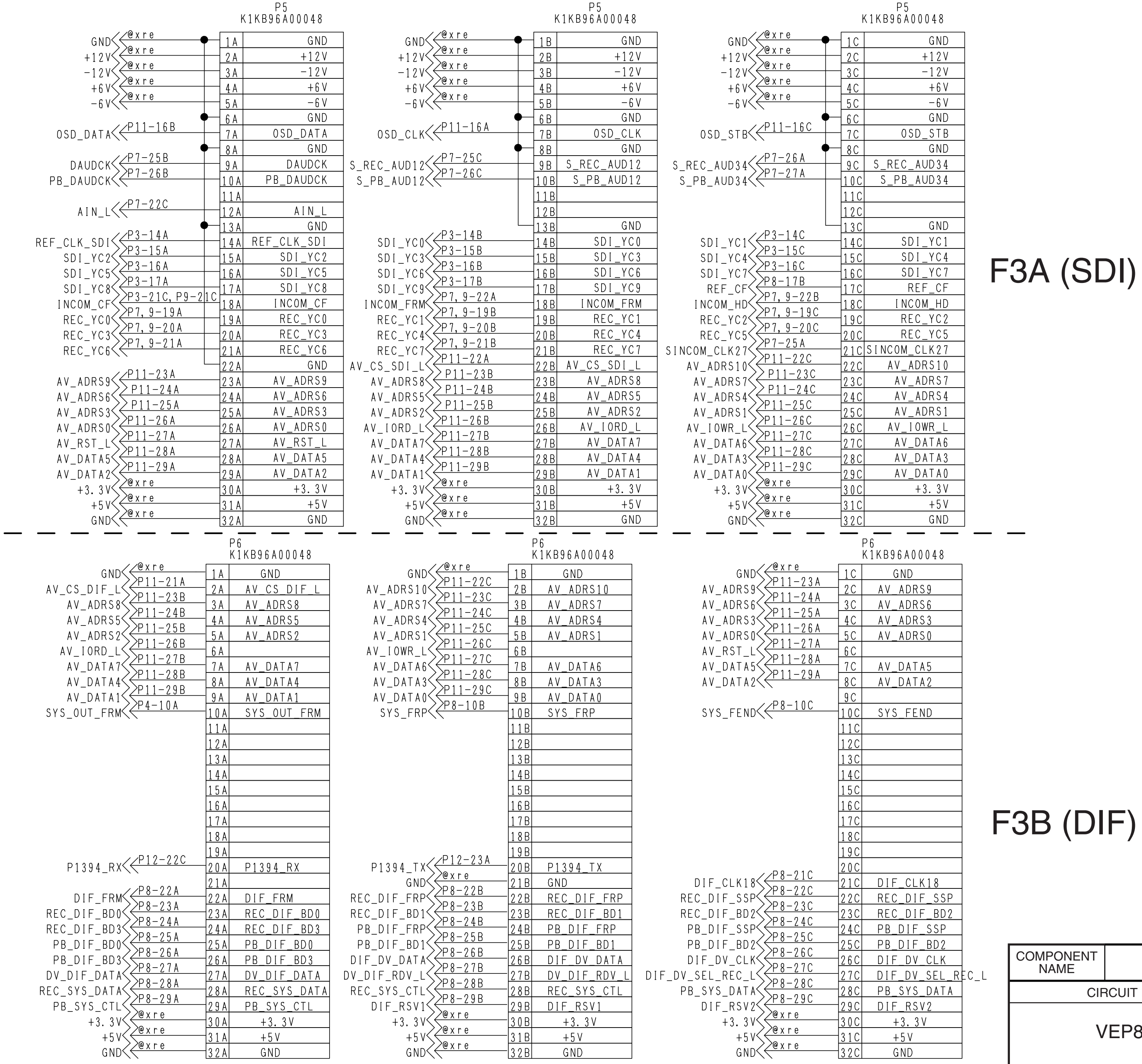
Signal	Link	Pin	Name
GND	@xre	1C	GNDA
+12V	@xre	2C	+12V
-12V	@xre	3C	-12V
+6V	@xre	4C	+6V
-6V	@xre	5C	-6V
CH1_IN_H	P21-1C	6C	CH1_IN_H
CH2_IN_H	P21-2C	7C	CH2_IN_H
GND	@xre	8C	GNDA
CH1_OUT_H	P21-5C	9C	CH1_OUT_H
CH2_OUT_H	P21-6C	10C	CH2_OUT_H
L_MONI_OUT_H	P21-7C	11C	L_MONI_OUT_H
R_MONI_OUT_H	P21-8C	12C	R_MONI_OUT_H
GND	@xre	13C	GNDA
WCK1	P7-28A	14C	WCK1
DASDLR	P7-29A	15C	DASDLR
CYL_FG+	P14-9C	16C	CYL_FG+
CUE_ERASE_ON	P16-4A	17C	CUE_ERASE_ON
CUE_HS_PB	P16-5B	18C	CUE_HS_PB
CUE_PB_IN	P16-9B	19C	CUE_PB_IN
HP_G	P20-2	20C	HP_GND
		21C	
AV_ADRS10	P11-22C	22C	AV_ADRS10
AV_ADRS7	P11-23C	23C	AV_ADRS7
AV_ADRS4	P11-24C	24C	AV_ADRS4
AV_ADRS1	P11-25C	25C	AV_ADRS1
AV_IOWR_L	P11-26C	26C	AV_IOWR_L
AV_DATA6	P11-27C	27C	AV_DATA6
AV_DATA3	P11-28C	28C	AV_DATA3
AV_DATA0	P11-29C	29C	AV_DATA0
+3.3V	@xre	30C	+3.3V
+5V	@xre	31C	+5V
GND	@xre	32C	DGND

COMPONENT NAME	**MOTHER**	01/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (1/10)	
	SCM119	

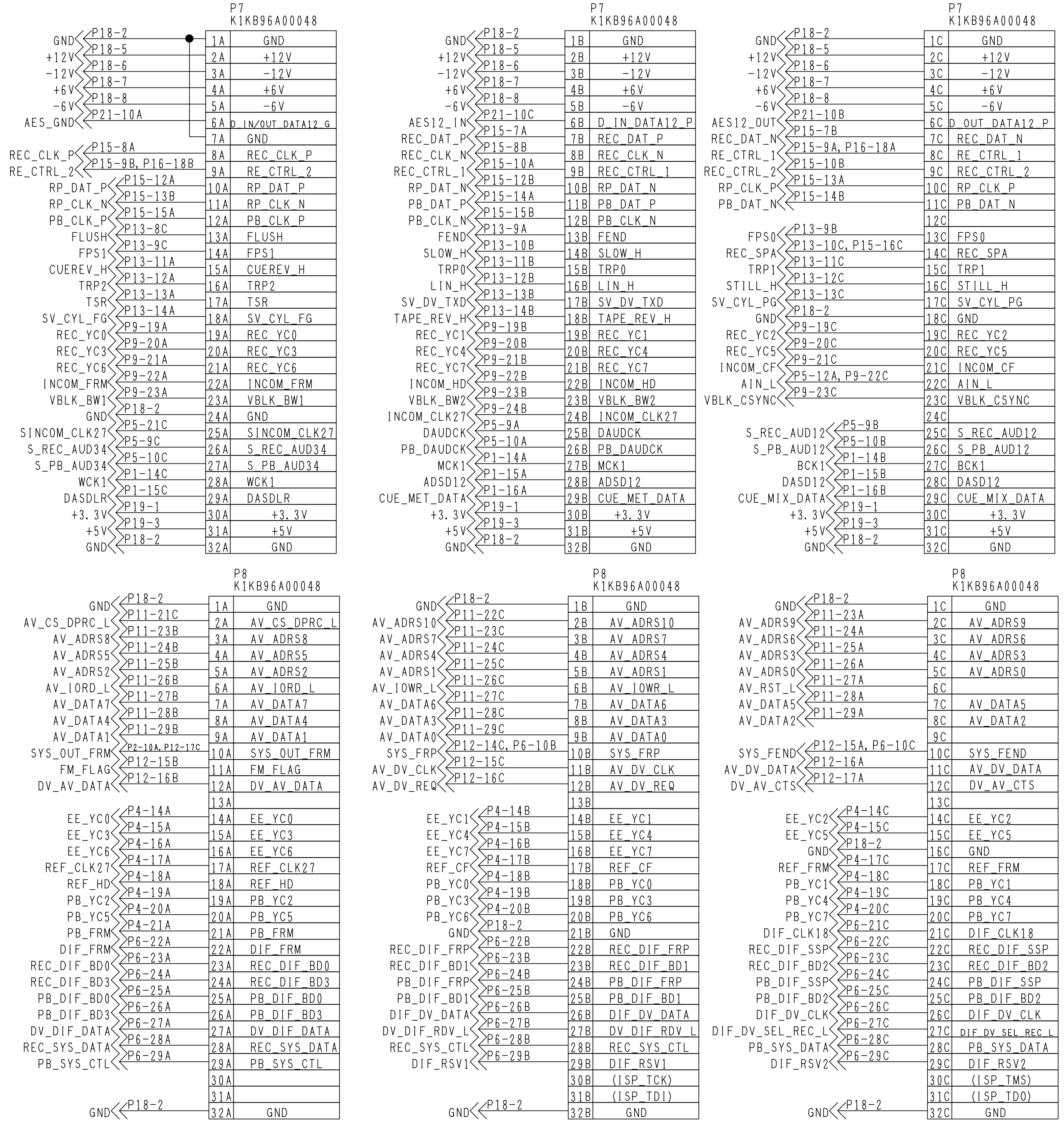

P3
K1KB96A00048
GND @xre 1A GNDA
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
GND P21-13B 7A V1_G
VIDEO_OUT2 P21-12B 8A V2
GND P21-13B 9A YCC_G
4P_Y_OUT P21-13C 10A YCY
GND P21-15B 11A PB_G
PR_OUT P21-14A 12A PR
13A GNDA
REF_CLK_SDI P5-14A 14A REF_CLK_SDI
SDI_YC2 P5-15A 15A SDI_YC2
SDI_YC5 P5-16A 16A SDI_YC5
SDI_YC8 P5-17A 17A SDI_YC8
18A GND
19A
20A
21A
22A
AV_ADRS9 P11-23A 23A AV_ADRS9
AV_ADRS6 P11-24A 24A AV_ADRS6
AV_ADRS3 P11-25A 25A AV_ADRS3
AV_ADRS0 P11-26A 26A AV_ADRS0
AV_RST_L P11-27A 27A AV_RST_L
AV_DATA5 P11-28A 28A AV_DATA5
AV_DATA2 P11-29A 29A AV_DATA2
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A DGND
P3
K1KB96A00048
GND @xre 1B GNDA
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
VIDEO_OUT1 P21-12C 7B V1
GND P21-13B 8B V3_G
4P_C_OUT P21-13A 9B YCC
GND P21-15C 10B Y_G
PB_OUT P21-14B 11B PB
GND P21-15A 12B REF_G
13B GNDA
SDI_YC0 P5-14B 14B SDI_YC0
SDI_YC3 P5-15B 15B SDI_YC3
SDI_YC6 P5-16B 16B SDI_YC6
SDI_YC9 P5-17B 17B SDI_YC9
18B GND
SC_ADJ P15-24A 19B SC_ADJ
20B GND
21B
AV_CS_VOUT_L P11-21B 22B AV_CS_VOUT_L
AV_ADRS8 P11-23B 23B AV_ADRS8
AV_ADRS5 P11-24B 24B AV_ADRS5
AV_ADRS2 P11-25B 25B AV_ADRS2
AV_IORD_L P11-26B 26B AV_IORD_L
AV_DATA7 P11-27B 27B AV_DATA7
AV_DATA4 P11-28B 28B AV_DATA4
AV_DATA1 P11-29B 29B AV_DATA1
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B DGND
P3
K1KB96A00048
GND @xre 1C GNDA
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
GND P21-13B 7C V2_G
VIDEO_OUT3 P21-12A 8C V3
GND P21-15C 9C YCY_G
Y_OUT P21-14C 10C Y
GND P21-15A 11C PR_G
REF_IN P21-16A 12C REF
13C GNDA
SDI_YC1 P5-14C 14C SDI_YC1
SDI_YC4 P5-15C 15C SDI_YC4
SDI_YC7 P5-16C 16C SDI_YC7
17C
18C GND
SC_GND P15-25A 19C SC_GND
20C GND
INCOM_CF P5-18A, P9-21C 21C INCOM_CF
AV_ADRS10 P11-22C 22C AV_ADRS10
AV_ADRS7 P11-23C 23C AV_ADRS7
AV_ADRS4 P11-24C 24C AV_ADRS4
AV_ADRS1 P11-25C 25C AV_ADRS1
AV_IOWR_L P11-26C 26C AV_IOWR_L
AV_DATA6 P11-27C 27C AV_DATA6
AV_DATA3 P11-28C 28C AV_DATA3
AV_DATA0 P11-29C 29C AV_DATA0
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C DGND
P4
K1KB96A00048
GND @xre 1A GNDA
2A
3A
4A
5A
6A
7A
8A
9A GND
SYS_OUT_FRM P8-10A, P12-17C 10A SYS_OUT_FRM
CHR_CLK P12-18C 11A CHR_CLK
CHR_GATE_H P12-19C 12A CHR_GATE_H
ENC_DATA P12-20C 13A ENC_DATA
EE_YC0 P8-14A 14A EE_YC0
EE_YC3 P8-15A 15A EE_YC3
EE_YC6 P8-16A 16A EE_YC6
REF_CLK27 P8-17A 17A REF_CLK27
REF_HD P8-18A 18A REF_HD
PB_YC2 P8-19A 19A PB_YC2
PB_YC5 P8-20A 20A PB_YC5
PB_FRM P8-21A 21A PB_FRM
22A GND
23A
24A
25A
26A
27A
28A
29A
30A
31A
GND @xre 32A DGND
P4
K1KB96A00048
GND @xre 1B GNDA
2B
3B
4B
5B
6B
7B
8B
9B GND
TC_CSYNC_L P12-18A 10B TC_CSYNC_L
CHR_VSYNC_L P12-19A 11B CHR_VSYNC_L
CHR_DATA_H P12-20A 12B CHR_DATA_H
LTC_CLK P12-21A 13B LTC_CLK
EE_YC1 P8-14B 14B EE_YC1
EE_YC4 P8-15B 15B EE_YC4
EE_YC7 P8-16B 16B EE_YC7
REF_CF P5-17C, P8-17B 17B REF_CF
PB_YC0 P8-18B 18B PB_YC0
PB_YC3 P8-19B 19B PB_YC3
PB_YC6 P8-20B 20B PB_YC6
21B GND
22B
23B
24B
25B
26B
27B
28B
29B
30B
31B
GND @xre 32B DGND
P4
K1KB96A00048
GND @xre 1C GNDA
2C
3C
4C
5C
6C
7C
8C
9C GND
TC_VSYNC_L P12-18B 10C TC_VSYNC_L
CHR_HSYNC_L P12-19B 11C CHR_HSYNC_L
ENC_CLK P12-20B 12C (ENC_CLK_NC)
13C GNDA
EE_YC2 P8-14C 14C EE_YC2
EE_YC5 P8-15C 15C EE_YC5
16C GND
REF_FRM P8-17C 17C REF_FRM
PB_YC1 P8-18C 18C PB_YC1
PB_YC4 P8-19C 19C PB_YC4
PB_YC7 P8-20C 20C PB_YC7
21C GND
22C
23C
24C
25C
26C
27C
28C
29C
30C
31C
GND @xre 32C DGND

F2 (V_OUT)

COMPONENT NAME	MOTHER	02/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (2/10)	
	SCM120	


F3A (SDI)
P5 K1KB96A00048
GND @xre 1A GND
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
OSD_DATA P11-16B 7A OSD_DATA
8A GND
DAUDCK P7-25B 9A DAUDCK
PB_DAUDCK P7-26B 10A PB_DAUDCK
11A
AIN_L P7-22C 12A AIN_L
13A GND
REF_CLK_SDI P3-14A 14A REF_CLK_SDI
SDI_YC2 P3-15A 15A SDI_YC2
SDI_YC5 P3-16A 16A SDI_YC5
SDI_YC8 P3-17A 17A SDI_YC8
INCOM_CF P3-21C, P9-21C 18A INCOM_CF
REC_YC0 P7, 9-19A 19A REC_YC0
REC_YC3 P7, 9-20A 20A REC_YC3
REC_YC6 P7, 9-21A 21A REC_YC6
22A GND
AV_ADRS9 P11-23A 23A AV_ADRS9
AV_ADRS6 P11-24A 24A AV_ADRS6
AV_ADRS3 P11-25A 25A AV_ADRS3
AV_ADRS0 P11-26A 26A AV_ADRS0
AV_RST_L P11-27A 27A AV_RST_L
AV_DATA5 P11-28A 28A AV_DATA5
AV_DATA2 P11-29A 29A AV_DATA2
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P5 K1KB96A00048
GND @xre 1B GND
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
OSD_CLK P11-16A 7B OSD_CLK
8B GND
S_REC_AUD12 P7-25C 9B S_REC_AUD12
S_PB_AUD12 P7-26C 10B S_PB_AUD12
11B
12B
13B GND
SDI_YC0 P3-14B 14B SDI_YC0
SDI_YC3 P3-15B 15B SDI_YC3
SDI_YC6 P3-16B 16B SDI_YC6
SDI_YC9 P3-17B 17B SDI_YC9
INCOM_FRM P7, 9-22A 18B INCOM_FRM
REC_YC1 P7, 9-19B 19B REC_YC1
REC_YC4 P7, 9-20B 20B REC_YC4
REC_YC7 P7, 9-21B 21B REC_YC7
AV_CS_SDI_L P11-22A 22B AV_CS_SDI_L
AV_ADRS8 P11-23B 23B AV_ADRS8
AV_ADRS5 P11-24B 24B AV_ADRS5
AV_ADRS2 P11-25B 25B AV_ADRS2
AV_IORD_L P11-26B 26B AV_IORD_L
AV_DATA7 P11-27B 27B AV_DATA7
AV_DATA4 P11-28B 28B AV_DATA4
AV_DATA1 P11-29B 29B AV_DATA1
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P5 K1KB96A00048
GND @xre 1C GND
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
OSD_STB P11-16C 7C OSD_STB
8C GND
S_REC_AUD34 P7-26A 9C S_REC_AUD34
S_PB_AUD34 P7-27A 10C S_PB_AUD34
11C
12C
13C GND
SDI_YC1 P3-14C 14C SDI_YC1
SDI_YC4 P3-15C 15C SDI_YC4
SDI_YC7 P3-16C 16C SDI_YC7
REF_CF P8-17B 17C REF_CF
INCOM_HD P7, 9-22B 18C INCOM_HD
REC_YC2 P7, 9-19C 19C REC_YC2
REC_YC5 P7, 9-20C 20C REC_YC5
SINCOM_CLK27 P7-25A 21C SINCOM_CLK27
AV_ADRS10 P11-22C 22C AV_ADRS10
AV_ADRS7 P11-23C 23C AV_ADRS7
AV_ADRS4 P11-24C 24C AV_ADRS4
AV_ADRS1 P11-25C 25C AV_ADRS1
AV_IOWR_L P11-26C 26C AV_IOWR_L
AV_DATA6 P11-27C 27C AV_DATA6
AV_DATA3 P11-28C 28C AV_DATA3
AV_DATA0 P11-29C 29C AV_DATA0
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND
F3B (DIF)
P6 K1KB96A00048
GND @xre 1A GND
AV_CS_DIF_L P11-21A 2A AV_CS_DIF_L
AV_ADRS8 P11-23B 3A AV_ADRS8
AV_ADRS5 P11-24B 4A AV_ADRS5
AV_ADRS2 P11-25B 5A AV_ADRS2
AV_IORD_L P11-26B 6A
AV_DATA7 P11-27B 7A AV_DATA7
AV_DATA4 P11-28B 8A AV_DATA4
AV_DATA1 P11-29B 9A AV_DATA1
SYS_OUT_FRM P4-10A 10A SYS_OUT_FRM
11A
12A
13A
14A
15A
16A
17A
18A
19A
P1394_RX P12-22C 20A P1394_RX
21A
DIF_FRM P8-22A 22A DIF_FRM
REC_DIF_BD0 P8-23A 23A REC_DIF_BD0
REC_DIF_BD3 P8-24A 24A REC_DIF_BD3
PB_DIF_BD0 P8-25A 25A PB_DIF_BD0
PB_DIF_BD3 P8-26A 26A PB_DIF_BD3
DV_DIF_DATA P8-27A 27A DV_DIF_DATA
REC_SYS_DATA P8-28A 28A REC_SYS_DATA
PB_SYS_CTL P8-29A 29A PB_SYS_CTL
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P6 K1KB96A00048
GND @xre 1B GND
AV_ADRS10 P11-22C 2B AV_ADRS10
AV_ADRS7 P11-23C 3B AV_ADRS7
AV_ADRS4 P11-24C 4B AV_ADRS4
AV_ADRS1 P11-25C 5B AV_ADRS1
AV_IOWR_L P11-26C 6B
AV_DATA6 P11-27C 7B AV_DATA6
AV_DATA3 P11-28C 8B AV_DATA3
AV_DATA0 P11-29C 9B AV_DATA0
SYS_FRP P8-10B 10B SYS_FRP
11B
12B
13B
14B
15B
16B
17B
18B
19B
P1394_TX P12-23A 20B P1394_TX
GND @xre 21B GND
REC_DIF_FRP P8-22B 22B REC_DIF_FRP
REC_DIF_BD1 P8-23B 23B REC_DIF_BD1
PB_DIF_FRP P8-24B 24B PB_DIF_FRP
PB_DIF_BD1 P8-25B 25B PB_DIF_BD1
DIF_DV_DATA P8-26B 26B DIF_DV_DATA
DV_DIF_RDV_L P8-27B 27B DV_DIF_RDV_L
REC_SYS_CTL P8-28B 28B REC_SYS_CTL
DIF_RSV1 P8-29B 29B DIF_RSV1
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P6 K1KB96A00048
GND @xre 1C GND
AV_ADRS9 P11-23A 2C AV_ADRS9
AV_ADRS6 P11-24A 3C AV_ADRS6
AV_ADRS3 P11-25A 4C AV_ADRS3
AV_ADRS0 P11-26A 5C AV_ADRS0
AV_RST_L P11-27A 6C
AV_DATA5 P11-28A 7C AV_DATA5
AV_DATA2 P11-29A 8C AV_DATA2
9C
SYS_FEND P8-10C 10C SYS_FEND
11C
12C
13C
14C
15C
16C
17C
18C
19C
20C
DIF_CLK18 P8-21C 21C DIF_CLK18
REC_DIF_SSP P8-22C 22C REC_DIF_SSP
REC_DIF_BD2 P8-23C 23C REC_DIF_BD2
PB_DIF_SSP P8-24C 24C PB_DIF_SSP
PB_DIF_BD2 P8-25C 25C PB_DIF_BD2
DIF_DV_CLK P8-26C 26C DIF_DV_CLK
DIF_DV_SEL_REC_L P8-27C 27C DIF_DV_SEL_REC_L
PB_SYS_DATA P8-28C 28C PB_SYS_DATA
DIF_RSV2 P8-29C 29C DIF_RSV2
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	MOTHER	03/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (3/10)	
	SCM121	



P7
K1KB96A00048

GND	P18-2	1A	GND
+12V	P18-5	2A	+12V
-12V	P18-6	3A	-12V
+6V	P18-7	4A	+6V
-6V	P18-8	5A	-6V
AES_GND	P21-10A	6A	D_IN/OUT_DATA12_G
		7A	GND
REC_CLK_P	P15-8A	8A	REC_CLK_P
RE_CTRL_2	P15-9B, P16-18B	9A	RE_CTRL_2
RP_DAT_P	P15-12A	10A	RP_DAT_P
RP_CLK_N	P15-13B	11A	RP_CLK_N
PB_CLK_P	P15-15A	12A	PB_CLK_P
FLUSH	P13-8C	13A	FLUSH
FPS1	P13-9C	14A	FPS1
CUEREV_H	P13-11A	15A	CUEREV_H
TRP2	P13-12A	16A	TRP2
TSR	P13-13A	17A	TSR
SV_CYL_FG	P13-14A	18A	SV_CYL_FG
REC_YC0	P9-19A	19A	REC_YC0
REC_YC3	P9-20A	20A	REC_YC3
REC_YC6	P9-21A	21A	REC_YC6
INCOM_FRM	P9-22A	22A	INCOM_FRM
VBLK_BW1	P9-23A	23A	VBLK_BW1
GND	P18-2	24A	GND
SINCOM_CLK27	P5-21C	25A	SINCOM_CLK27
S_REC_AUD34	P5-9C	26A	S_REC_AUD34
S_PB_AUD34	P5-10C	27A	S_PB_AUD34
WCK1	P1-14C	28A	WCK1
DASDLR	P1-15C	29A	DASDLR
+3. 3V	P19-1	30A	+3. 3V
+5V	P19-3	31A	+5V
GND	P18-2	32A	GND

P7
K1KB96A00048

GND	P18-2	1B	GND
+12V	P18-5	2B	+12V
-12V	P18-6	3B	-12V
+6V	P18-7	4B	+6V
-6V	P18-8	5B	-6V
AES12_IN	P21-10C	6B	D_IN_DATA12_P
REC_DAT_P	P15-7A	7B	REC_DAT_P
REC_CLK_N	P15-8B	8B	REC_CLK_N
REC_CTRL_1	P15-10A	9B	REC_CTRL_1
RP_DAT_N	P15-12B	10B	RP_DAT_N
PB_DAT_P	P15-14A	11B	PB_DAT_P
PB_CLK_N	P15-15B	12B	PB_CLK_N
FEND	P13-9A	13B	FEND
SLOW_H	P13-10B	14B	SLOW_H
TRP0	P13-11B	15B	TRP0
LIN_H	P13-12B	16B	LIN_H
SV_DV_TXD	P13-13B	17B	SV_DV_TXD
TAPE_REV_H	P13-14B	18B	TAPE_REV_H
REC_YC1	P9-19B	19B	REC_YC1
REC_YC4	P9-20B	20B	REC_YC4
REC_YC7	P9-21B	21B	REC_YC7
INCOM_HD	P9-22B	22B	INCOM_HD
VBLK_BW2	P9-23B	23B	VBLK_BW2
INCOM_CLK27	P9-24B	24B	INCOM_CLK27
DAUDCK	P5-9A	25B	DAUDCK
PB_DAUDCK	P5-10A	26B	PB_DAUDCK
MCK1	P1-14A	27B	MCK1
ADSD12	P1-15A	28B	ADSD12
CUE_MET_DATA	P1-16A	29B	CUE_MET_DATA
+3. 3V	P19-1	30B	+3. 3V
+5V	P19-3	31B	+5V
GND	P18-2	32B	GND

P7
K1KB96A00048

GND	P18-2	1C	GND
+12V	P18-5	2C	+12V
-12V	P18-6	3C	-12V
+6V	P18-7	4C	+6V
-6V	P18-8	5C	-6V
AES12_OUT	P21-10B	6C	D_OUT_DATA12_P
REC_DAT_N	P15-7B	7C	REC_DAT_N
RE_CTRL_1	P15-9A, P16-18A	8C	RE_CTRL_1
REC_CTRL_2	P15-10B	9C	REC_CTRL_2
RP_CLK_P	P15-13A	10C	RP_CLK_P
PB_DAT_N	P15-14B	11C	PB_DAT_N
		12C	
FPS0	P13-9B	13C	FPS0
REC_SPA	P13-10C, P15-16C	14C	REC_SPA
TRP1	P13-11C	15C	TRP1
STILL_H	P13-12C	16C	STILL_H
SV_CYL_PG	P13-13C	17C	SV_CYL_PG
GND	P18-2	18C	GND
REC_YC2	P9-19C	19C	REC_YC2
REC_YC5	P9-20C	20C	REC_YC5
INCOM_CF	P9-21C	21C	INCOM_CF
AIN_L	P5-12A, P9-22C	22C	AIN_L
VBLK_CSYNC	P9-23C	23C	VBLK_CSYNC
		24C	
S_REC_AUD12	P5-9B	25C	S_REC_AUD12
S_PB_AUD12	P5-10B	26C	S_PB_AUD12
BCK1	P1-14B	27C	BCK1
DASD12	P1-15B	28C	DASD12
CUE_MIX_DATA	P1-16B	29C	CUE_MIX_DATA
+3. 3V	P19-1	30C	+3. 3V
+5V	P19-3	31C	+5V
GND	P18-2	32C	GND

F4 (D_PROC)

P8
K1KB96A00048

GND	P18-2	1A	GND
AV_CS_DPRC_L	P11-21C	2A	AV_CS_DPRC_L
AV_ADRS8	P11-23B	3A	AV_ADRS8
AV_ADRS5	P11-24B	4A	AV_ADRS5
AV_ADRS2	P11-25B	5A	AV_ADRS2
AV_IORD_L	P11-26B	6A	AV_IORD_L
AV_DATA7	P11-27B	7A	AV_DATA7
AV_DATA4	P11-28B	8A	AV_DATA4
AV_DATA1	P11-29B	9A	AV_DATA1
SYS_OUT_FRM	P2-10A, P12-17C	10A	SYS_OUT_FRM
FM_FLAG	P12-15B	11A	FM_FLAG
DV_AV_DATA	P12-16B	12A	DV_AV_DATA
		13A	
EE_YC0	P4-14A	14A	EE_YC0
EE_YC3	P4-15A	15A	EE_YC3
EE_YC6	P4-16A	16A	EE_YC6
REF_CLK27	P4-17A	17A	REF_CLK27
REF_HD	P4-18A	18A	REF_HD
PB_YC2	P4-19A	19A	PB_YC2
PB_YC5	P4-20A	20A	PB_YC5
PB_FRM	P4-21A	21A	PB_FRM
DIF_FRM	P6-22A	22A	DIF_FRM
REC_DIF_BD0	P6-23A	23A	REC_DIF_BD0
REC_DIF_BD3	P6-24A	24A	REC_DIF_BD3
PB_DIF_BD0	P6-25A	25A	PB_DIF_BD0
PB_DIF_BD3	P6-26A	26A	PB_DIF_BD3
DV_DIF_DATA	P6-27A	27A	DV_DIF_DATA
REC_SYS_DATA	P6-28A	28A	REC_SYS_DATA
PB_SYS_CTL	P6-29A	29A	PB_SYS_CTL
		30A	
		31A	
GND	P18-2	32A	GND

P8
K1KB96A00048

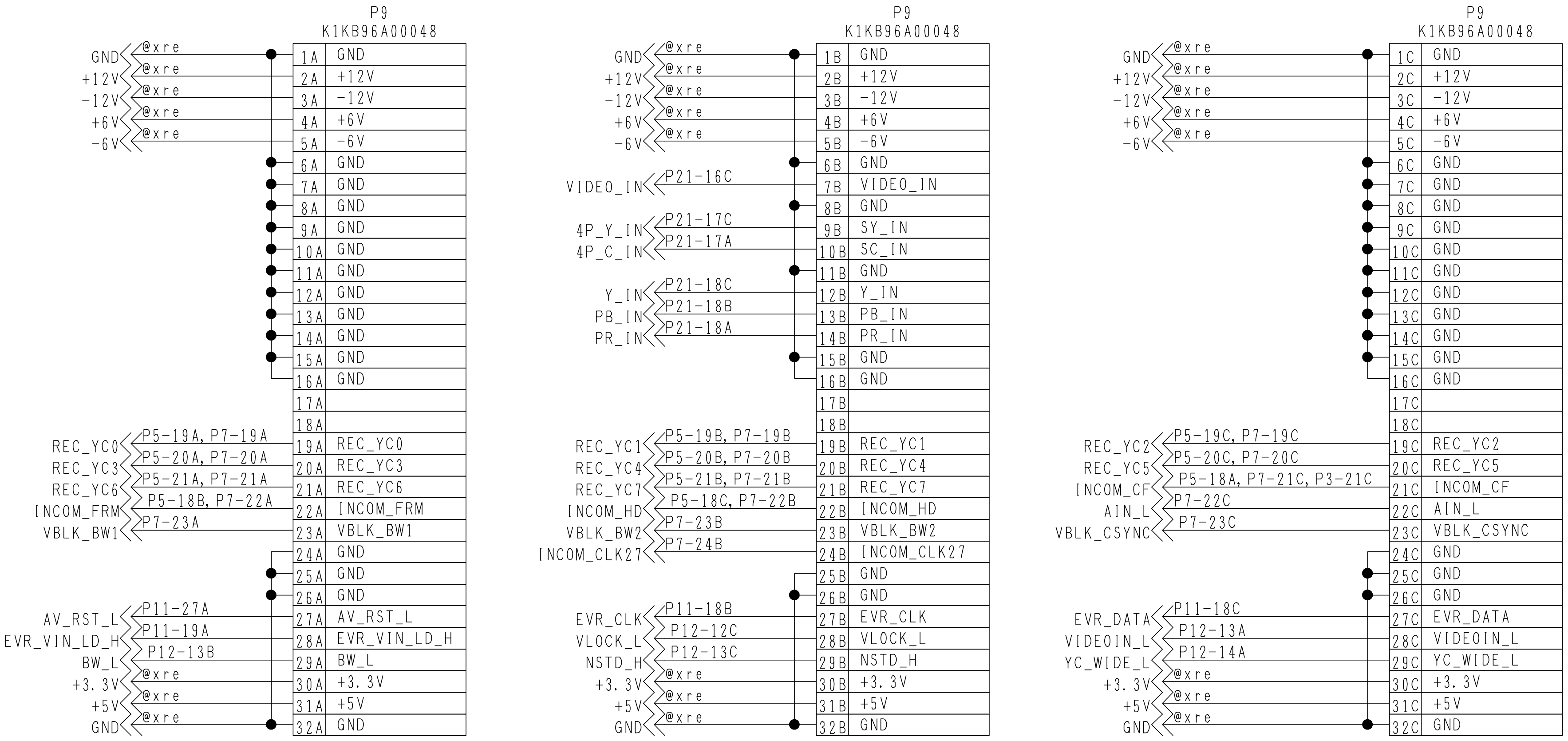
GND	P18-2	1B	GND
AV_ADRS10	P11-22C	2B	AV_ADRS10
AV_ADRS7	P11-23C	3B	AV_ADRS7
AV_ADRS4	P11-24C	4B	AV_ADRS4
AV_ADRS1	P11-25C	5B	AV_ADRS1
AV_IOWR_L	P11-26C	6B	AV_IOWR_L
AV_DATA6	P11-27C	7B	AV_DATA6
AV_DATA3	P11-28C	8B	AV_DATA3
AV_DATA0	P11-29C	9B	AV_DATA0
SYS_FRP	P12-14C, P6-10B	10B	SYS_FRP
AV_DV_CLK	P12-15C	11B	AV_DV_CLK
AV_DV_REQ	P12-16C	12B	AV_DV_REQ
		13B	
EE_YC1	P4-14B	14B	EE_YC1
EE_YC4	P4-15B	15B	EE_YC4
EE_YC7	P4-16B	16B	EE_YC7
REF_CF	P4-17B	17B	REF_CF
PB_YC0	P4-18B	18B	PB_YC0
PB_YC3	P4-19B	19B	PB_YC3
PB_YC6	P4-20B	20B	PB_YC6
GND	P18-2	21B	GND
REC_DIF_FRP	P6-22B	22B	REC_DIF_FRP
REC_DIF_BD1	P6-23B	23B	REC_DIF_BD1
PB_DIF_FRP	P6-24B	24B	PB_DIF_FRP
PB_DIF_BD1	P6-25B	25B	PB_DIF_BD1
DIF_DV_DATA	P6-26B	26B	DIF_DV_DATA
DV_DIF_RDV_L	P6-27B	27B	DV_DIF_RDV_L
REC_SYS_CTL	P6-28B	28B	REC_SYS_CTL
DIF_RSV1	P6-29B	29B	DIF_RSV1
		30B	(ISP_TCK)
		31B	(ISP_TDI)
GND	P18-2	32B	GND

P8
K1KB96A00048

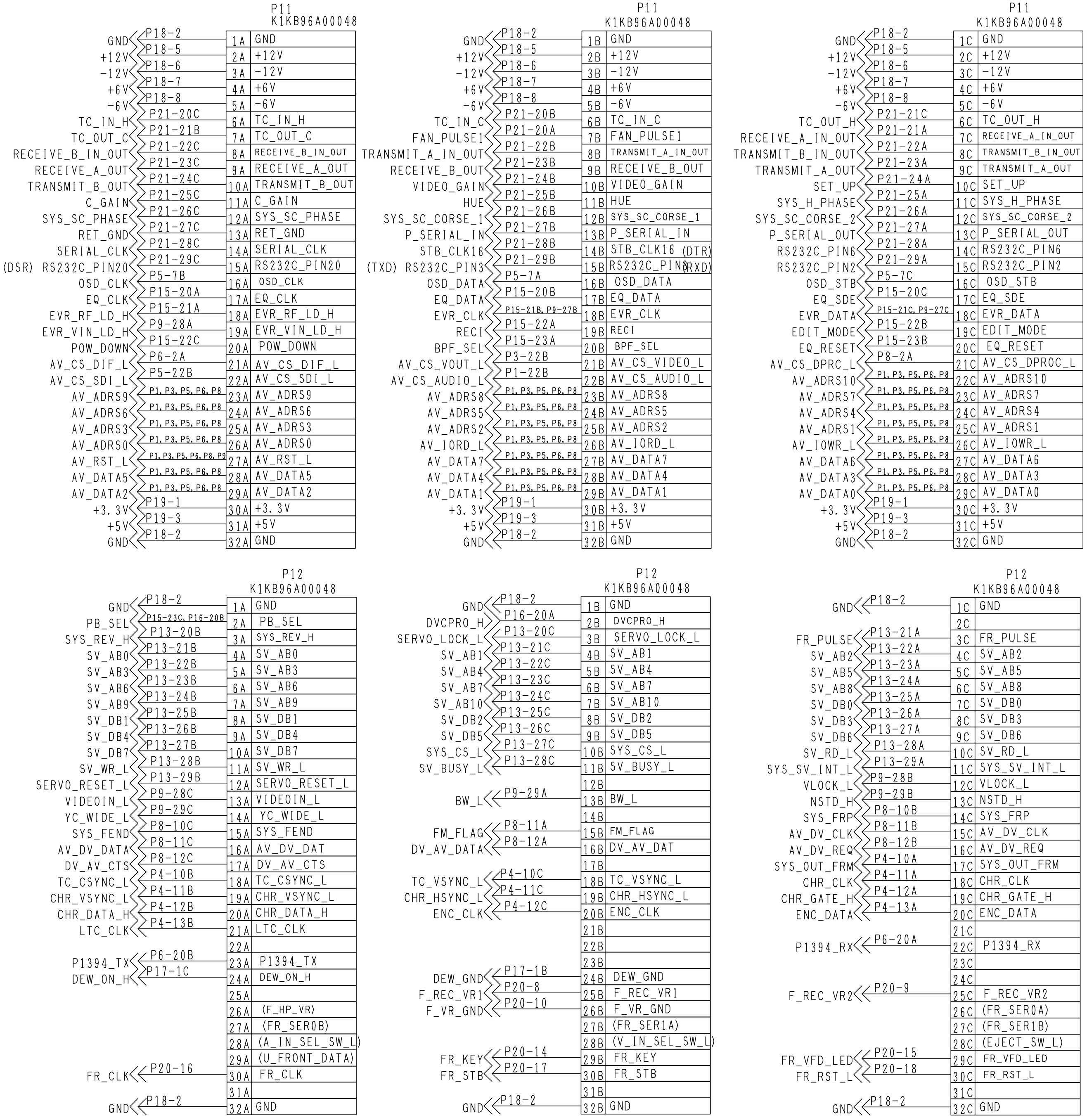
GND	P18-2	1C	GND
AV_ADRS9	P11-23A	2C	AV_ADRS9
AV_ADRS6	P11-24A	3C	AV_ADRS6
AV_ADRS3	P11-25A	4C	AV_ADRS3
AV_ADRS0	P11-26A	5C	AV_ADRS0
AV_RST_L	P11-27A	6C	
AV_DATA5	P11-28A	7C	AV_DATA5
AV_DATA2	P11-29A	8C	AV_DATA2
		9C	
SYS_FEND	P12-15A, P6-10C	10C	SYS_FEND
AV_DV_DATA	P12-16A	11C	AV_DV_DATA
DV_AV_CTS	P12-17A	12C	DV_AV_CTS
		13C	
EE_YC2	P4-14C	14C	EE_YC2
EE_YC5	P4-15C	15C	EE_YC5
GND	P18-2	16C	GND
REF_FRM	P4-17C	17C	REF_FRM
PB_YC1	P4-18C	18C	PB_YC1
PB_YC4	P4-19C	19C	PB_YC4
PB_YC7	P4-20C	20C	PB_YC7
DIF_CLK18	P6-21C	21C	DIF_CLK18
REC_DIF_SSP	P6-22C	22C	REC_DIF_SSP
REC_DIF_BD2	P6-23C	23C	REC_DIF_BD2
PB_DIF_SSP	P6-24C	24C	PB_DIF_SSP
PB_DIF_BD2	P6-25C	25C	PB_DIF_BD2
DIF_DV_CLK	P6-26C	26C	DIF_DV_CLK
DIF_DV_SEL_REC_L	P6-27C	27C	DIF_DV_SEL_REC_L
PB_SYS_DATA	P6-28C	28C	PB_SYS_DATA
DIF_RSV2	P6-29C	29C	DIF_RSV2
		30C	(ISP_TMS)
		31C	(ISP_TDO)
GND	P18-2	32C	GND

COMPONENT NAME	MOTHER	04/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (4/10)	
	SCM122	

F5 (V_IN)


P9
K1KB96A00048
GND @xre 1A GND
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
7A GND
8A GND
9A GND
10A GND
11A GND
12A GND
13A GND
14A GND
15A GND
16A GND
17A
18A
REC_YC0 P5-19A, P7-19A 19A REC_YC0
REC_YC3 P5-20A, P7-20A 20A REC_YC3
REC_YC6 P5-21A, P7-21A 21A REC_YC6
INCOM_FRM P5-18B, P7-22A 22A INCOM_FRM
VBLK_BW1 P7-23A 23A VBLK_BW1
24A GND
25A GND
26A GND
AV_RST_L P11-27A 27A AV_RST_L
EVR_VIN_LD_H P11-19A 28A EVR_VIN_LD_H
BW_L P12-13B 29A BW_L
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P9
K1KB96A00048
GND @xre 1B GND
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
VIDEO_IN P21-16C 7B VIDEO_IN
8B GND
4P_Y_IN P21-17C 9B SY_IN
4P_C_IN P21-17A 10B SC_IN
11B GND
Y_IN P21-18C 12B Y_IN
PB_IN P21-18B 13B PB_IN
PR_IN P21-18A 14B PR_IN
15B GND
16B GND
17B
18B
REC_YC1 P5-19B, P7-19B 19B REC_YC1
REC_YC4 P5-20B, P7-20B 20B REC_YC4
REC_YC7 P5-21B, P7-21B 21B REC_YC7
INCOM_HD P5-18C, P7-22B 22B INCOM_HD
VBLK_BW2 P7-23B 23B VBLK_BW2
INCOM_CLK27 P7-24B 24B INCOM_CLK27
25B GND
26B GND
EVR_CLK P11-18B 27B EVR_CLK
VLOCK_L P12-12C 28B VLOCK_L
NSTD_H P12-13C 29B NSTD_H
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P9
K1KB96A00048
GND @xre 1C GND
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
7C GND
8C GND
9C GND
10C GND
11C GND
12C GND
13C GND
14C GND
15C GND
16C GND
17C
18C
REC_YC2 P5-19C, P7-19C 19C REC_YC2
REC_YC5 P5-20C, P7-20C 20C REC_YC5
INCOM_CF P5-18A, P7-21C, P3-21C 21C INCOM_CF
AIN_L P7-22C 22C AIN_L
VBLK_CSYNC P7-23C 23C VBLK_CSYNC
24C GND
25C GND
26C GND
EVR_DATA P11-18C 27C EVR_DATA
VIDEOIN_L P12-13A 28C VIDEOIN_L
YC_WIDE_L P12-14A 29C YC_WIDE_L
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND

COMPONENT NAME	**MOTHER**	05/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (5/10)	
	SCM123	


P11
K1KB96A00048
GND P18-2 1A GND
+12V P18-5 2A +12V
-12V P18-6 3A -12V
+6V P18-7 4A +6V
-6V P18-8 5A -6V
TC_IN_H P21-20C 6A TC_IN_H
TC_OUT_C P21-21B 7A TC_OUT_C
RECEIVE_B_IN_OUT P21-22C 8A RECEIVE_B_IN_OUT
RECEIVE_A_OUT P21-23C 9A RECEIVE_A_OUT
TRANSMIT_B_OUT P21-24C 10A TRANSMIT_B_OUT
C_GAIN P21-25C 11A C_GAIN
SYS_SC_PHASE P21-26C 12A SYS_SC_PHASE
RET_GND P21-27C 13A RET_GND
SERIAL_CLK P21-28C 14A SERIAL_CLK
(DSR) RS232C_PIN20 P21-29C 15A RS232C_PIN20
OSD_CLK P5-7B 16A OSD_CLK
EQ_CLK P15-20A 17A EQ_CLK
EVR_RF_LD_H P15-21A 18A EVR_RF_LD_H
EVR_VIN_LD_H P9-28A 19A EVR_VIN_LD_H
POW_DOWN P15-22C 20A POW_DOWN
AV_CS_DIF_L P6-2A 21A AV_CS_DIF_L
AV_CS_SDI_L P5-22B 22A AV_CS_SDI_L
AV_ADRS9 P1, P3, P5, P6, P8 23A AV_ADRS9
AV_ADRS6 P1, P3, P5, P6, P8 24A AV_ADRS6
AV_ADRS3 P1, P3, P5, P6, P8 25A AV_ADRS3
AV_ADRS0 P1, P3, P5, P6, P8 26A AV_ADRS0
AV_RST_L P1, P3, P5, P6, P8, P9 27A AV_RST_L
AV_DATA5 P1, P3, P5, P6, P8 28A AV_DATA5
AV_DATA2 P1, P3, P5, P6, P8 29A AV_DATA2
+3.3V P19-1 30A +3.3V
+5V P19-3 31A +5V
GND P18-2 32A GND
P11
K1KB96A00048
GND P18-2 1B GND
+12V P18-5 2B +12V
-12V P18-6 3B -12V
+6V P18-7 4B +6V
-6V P18-8 5B -6V
TC_IN_C P21-20B 6B TC_IN_C
FAN_PULSE1 P21-20A 7B FAN_PULSE1
TRANSMIT_A_IN_OUT P21-22B 8B TRANSMIT_A_IN_OUT
RECEIVE_B_OUT P21-23B 9B RECEIVE_B_OUT
VIDEO_GAIN P21-24B 10B VIDEO_GAIN
HUE P21-25B 11B HUE
SYS_SC_CORSE_1 P21-26B 12B SYS_SC_CORSE_1
P_SERIAL_IN P21-27B 13B P_SERIAL_IN
STB_CLK16 P21-28B 14B STB_CLK16 (DTR)
(TXD) RS232C_PIN3 P21-29B 15B RS232C_PIN3 (RXD)
OSD_DATA P5-7A 16B OSD_DATA
EQ_DATA P15-20B 17B EQ_DATA
EVR_CLK P15-21B, P9-27B 18B EVR_CLK
RECI P15-22A 19B RECI
BPF_SEL P15-23A 20B BPF_SEL
AV_CS_VOUT_L P3-22B 21B AV_CS_VIDEO_L
AV_CS_AUDIO_L P1-22B 22B AV_CS_AUDIO_L
AV_ADRS8 P1, P3, P5, P6, P8 23B AV_ADRS8
AV_ADRS5 P1, P3, P5, P6, P8 24B AV_ADRS5
AV_ADRS2 P1, P3, P5, P6, P8 25B AV_ADRS2
AV_IORD_L P1, P3, P5, P6, P8 26B AV_IORD_L
AV_DATA7 P1, P3, P5, P6, P8 27B AV_DATA7
AV_DATA4 P1, P3, P5, P6, P8 28B AV_DATA4
AV_DATA1 P1, P3, P5, P6, P8 29B AV_DATA1
+3.3V P19-1 30B +3.3V
+5V P19-3 31B +5V
GND P18-2 32B GND
P11
K1KB96A00048
GND P18-2 1C GND
+12V P18-5 2C +12V
-12V P18-6 3C -12V
+6V P18-7 4C +6V
-6V P18-8 5C -6V
TC_OUT_H P21-21C 6C TC_OUT_H
RECEIVE_A_IN_OUT P21-21A 7C RECEIVE_A_IN_OUT
TRANSMIT_B_IN_OUT P21-22A 8C TRANSMIT_B_IN_OUT
TRANSMIT_A_OUT P21-23A 9C TRANSMIT_A_OUT
SET_UP P21-24A 10C SET_UP
SYS_H_PHASE P21-25A 11C SYS_H_PHASE
SYS_SC_CORSE_2 P21-26A 12C SYS_SC_CORSE_2
P_SERIAL_OUT P21-27A 13C P_SERIAL_OUT
RS232C_PIN6 P21-28A 14C RS232C_PIN6
RS232C_PIN2 P21-29A 15C RS232C_PIN2
OSD_STB P5-7C 16C OSD_STB
EQ_SDE P15-20C 17C EQ_SDE
EVR_DATA P15-21C, P9-27C 18C EVR_DATA
EDIT_MODE P15-22B 19C EDIT_MODE
EQ_RESET P15-23B 20C EQ_RESET
AV_CS_DPRC_L P8-2A 21C AV_CS_DPROC_L
AV_ADRS10 P1, P3, P5, P6, P8 22C AV_ADRS10
AV_ADRS7 P1, P3, P5, P6, P8 23C AV_ADRS7
AV_ADRS4 P1, P3, P5, P6, P8 24C AV_ADRS4
AV_ADRS1 P1, P3, P5, P6, P8 25C AV_ADRS1
AV_IOWR_L P1, P3, P5, P6, P8 26C AV_IOWR_L
AV_DATA6 P1, P3, P5, P6, P8 27C AV_DATA6
AV_DATA3 P1, P3, P5, P6, P8 28C AV_DATA3
AV_DATA0 P1, P3, P5, P6, P8 29C AV_DATA0
+3.3V P19-1 30C +3.3V
+5V P19-3 31C +5V
GND P18-2 32C GND
P12
K1KB96A00048
GND P18-2 1A GND
PB_SEL P15-23C, P16-20B 2A PB_SEL
SYS_REV_H P13-20B 3A SYS_REV_H
SV_AB0 P13-21B 4A SV_AB0
SV_AB3 P13-22B 5A SV_AB3
SV_AB6 P13-23B 6A SV_AB6
SV_AB9 P13-24B 7A SV_AB9
SV_DB1 P13-25B 8A SV_DB1
SV_DB4 P13-26B 9A SV_DB4
SV_DB7 P13-27B 10A SV_DB7
SV_WR_L P13-28B 11A SV_WR_L
SERVO_RESET_L P13-29B 12A SERVO_RESET_L
VIDEOIN_L P9-28C 13A VIDEOIN_L
YC_WIDE_L P9-29C 14A YC_WIDE_L
SYS_FEND P8-10C 15A SYS_FEND
AV_DV_DATA P8-11C 16A AV_DV_DAT
DV_AV_CTS P8-12C 17A DV_AV_CTS
TC_CSYNC_L P4-10B 18A TC_CSYNC_L
CHR_VSYNC_L P4-11B 19A CHR_VSYNC_L
CHR_DATA_H P4-12B 20A CHR_DATA_H
LTC_CLK P4-13B 21A LTC_CLK
22A
P1394_TX P6-20B 23A P1394_TX
DEW_ON_H P17-1C 24A DEW_ON_H
25A
26A (F_HP_VR)
27A (FR_SER0B)
28A (A_IN_SEL_SW_L)
29A (U_FRONT_DATA)
FR_CLK P20-16 30A FR_CLK
31A
GND P18-2 32A GND
P12
K1KB96A00048
GND P18-2 1B GND
DVCPRO_H P16-20A 2B DVCPRO_H
SERVO_LOCK_L P13-20C 3B SERVO_LOCK_L
SV_AB1 P13-21C 4B SV_AB1
SV_AB4 P13-22C 5B SV_AB4
SV_AB7 P13-23C 6B SV_AB7
SV_AB10 P13-24C 7B SV_AB10
SV_DB2 P13-25C 8B SV_DB2
SV_DB5 P13-26C 9B SV_DB5
SYS_CS_L P13-27C 10B SYS_CS_L
SV_BUSY_L P13-28C 11B SV_BUSY_L
12B
BW_L P9-29A 13B BW_L
14B
FM_FLAG P8-11A 15B FM_FLAG
DV_AV_DATA P8-12A 16B DV_AV_DAT
17B
TC_VSYNC_L P4-10C 18B TC_VSYNC_L
CHR_HSYNC_L P4-11C 19B CHR_HSYNC_L
ENC_CLK P4-12C 20B ENC_CLK
21B
22B
23B
DEW_GND P17-1B 24B DEW_GND
F_REC_VR1 P20-8 25B F_REC_VR1
F_VR_GND P20-10 26B F_VR_GND
27B (FR_SER1A)
28B (V_IN_SEL_SW_L)
FR_KEY P20-14 29B FR_KEY
FR_STB P20-17 30B FR_STB
31B
GND P18-2 32B GND
P12
K1KB96A00048
GND P18-2 1C GND
2C
FR_PULSE P13-21A 3C FR_PULSE
SV_AB2 P13-22A 4C SV_AB2
SV_AB5 P13-23A 5C SV_AB5
SV_AB8 P13-24A 6C SV_AB8
SV_DB0 P13-25A 7C SV_DB0
SV_DB3 P13-26A 8C SV_DB3
SV_DB6 P13-27A 9C SV_DB6
SV_RD_L P13-28A 10C SV_RD_L
SYS_SV_INT_L P13-29A 11C SYS_SV_INT_L
VLOCK_L P9-28B 12C VLOCK_L
NSTD_H P9-29B 13C NSTD_H
SYS_FRP P8-10B 14C SYS_FRP
AV_DV_CLK P8-11B 15C AV_DV_CLK
AV_DV_REQ P8-12B 16C AV_DV_REQ
SYS_OUT_FRM P4-10A 17C SYS_OUT_FRM
CHR_CLK P4-11A 18C CHR_CLK
CHR_GATE_H P4-12A 19C CHR_GATE_H
ENC_DATA P4-13A 20C ENC_DATA
21C
P1394_RX P6-20A 22C P1394_RX
23C
24C
F_REC_VR2 P20-9 25C F_REC_VR2
26C (FR_SER0A)
27C (FR_SER1B)
28C (EJECT_SW_L)
FR_VFD_LED P20-15 29C FR_VFD_LED
FR_RST_L P20-18 30C FR_RST_L
31C
GND P18-2 32C GND
A
B
C
D
E
F
G
H
I
J
1
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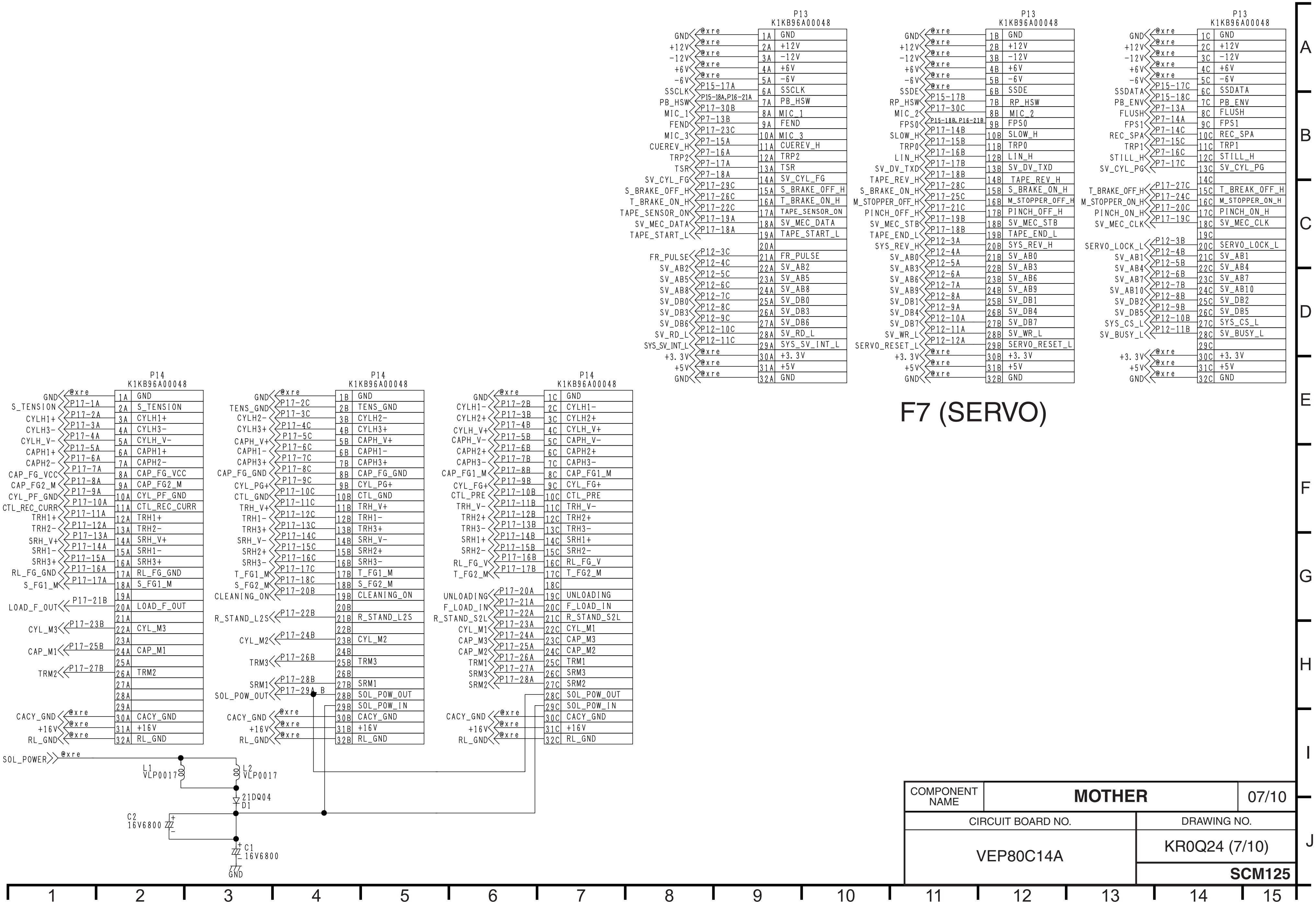
14
15

F6 (SYSCON)

COMPONENT NAME	MOTHER	06/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (6/10)	
	SCM124	


F7 (SERVO)
P13
K1KB96A00048
1A GND
2A +12V
3A -12V
4A +6V
5A -6V
6A SSCLK
7A PB_HSW
8A MIC_1
9A FEND
10A MIC_3
11A CUEREV_H
12A TRP2
13A TSR
14A SV_CYL_FG
15A S_BRAKE_OFF_H
16A T_BRAKE_ON_H
17A TAPE_SENSOR_ON
18A SV_MEC_DATA
19A TAPE_START_L
21A FR_PULSE
22A SV_AB2
23A SV_AB5
24A SV_AB8
25A SV_DB0
26A SV_DB3
27A SV_DB6
28A SV_RD_L
29A SYS_SV_INT_L
30A +3.3V
31A +5V
32A GND
P15-17A
P15-18A,P16-21A
P17-30B
P7-13B
P17-23C
P7-15A
P7-16A
P7-17A
P7-18A
P17-29C
P17-26C
P17-22C
P17-19A
P17-18A
P12-3C
P12-4C
P12-5C
P12-6C
P12-7C
P12-8C
P12-9C
P12-10C
P12-11C
@xre
1B GND
2B +12V
3B -12V
4B +6V
5B -6V
6B SSDE
7B RP_HSW
8B MIC_2
9B FPS0
10B SLOW_H
11B TRP0
12B LIN_H
13B SV_DV_TXD
14B TAPE_REV_H
15B S_BRAKE_ON_H
16B M_STOPPER_OFF_H
17B PINCH_OFF_H
18B SV_MEC_STB
19B TAPE_END_L
20B SYS_REV_H
21B SV_AB0
22B SV_AB3
23B SV_AB6
24B SV_AB9
25B SV_DB1
26B SV_DB4
27B SV_DB7
28B SV_WR_L
29B SERVO_RESET_L
30B +3.3V
31B +5V
32B GND
P15-17B
P17-30C
P15-18B,P16-21B
P17-14B
P17-15B
P17-16B
P17-17B
P17-18B
P17-28C
P17-25C
P17-21C
P17-19B
P17-18B
P12-3A
P12-4A
P12-5A
P12-6A
P12-7A
P12-8A
P12-9A
P12-10A
P12-11A
P12-12A
1C GND
2C +12V
3C -12V
4C +6V
5C -6V
6C SSDATA
7C PB_ENV
8C FLUSH
9C FPS1
10C REC_SPA
11C TRP1
12C STILL_H
13C SV_CYL_PG
15C T_BREAK_OFF_H
16C M_STOPPER_ON_H
17C PINCH_ON_H
18C SV_MEC_CLK
20C SERVO_LOCK_L
21C SV_AB1
22C SV_AB4
23C SV_AB7
24C SV_AB10
25C SV_DB2
26C SV_DB5
27C SYS_CS_L
28C SV_BUSY_L
30C +3.3V
31C +5V
32C GND
P15-17C
P15-18C
P7-13A
P7-14A
P7-14C
P7-15C
P7-16C
P7-17C
P17-27C
P17-24C
P17-20C
P17-19C
P12-3B
P12-4B
P12-5B
P12-6B
P12-7B
P12-8B
P12-9B
P12-10B
P12-11B
P14
K1KB96A00048
1A GND
2A S_TENSION
3A CYLH1+
4A CYLH3-
5A CYLH_V-
6A CAPH1+
7A CAPH2-
8A CAP_FG_VCC
9A CAP_FG2_M
10A CYL_PF_GND
11A CTL_REC_CURR
12A TRH1+
13A TRH2-
14A SRH_V+
15A SRH1-
16A SRH3+
17A RL_FG_GND
18A S_FG1_M
20A LOAD_F_OUT
22A CYL_M3
24A CAP_M1
26A TRM2
30A CACY_GND
31A +16V
32A RL_GND
P17-1A
P17-2A
P17-3A
P17-4A
P17-5A
P17-6A
P17-7A
P17-8A
P17-9A
P17-10A
P17-11A
P17-12A
P17-13A
P17-14A
P17-15A
P17-16A
P17-17A
P17-21B
P17-23B
P17-25B
P17-27B
1B GND
2B TENS_GND
3B CYLH2-
4B CYLH3+
5B CAPH_V+
6B CAPH1-
7B CAPH3+
8B CAP_FG_GND
9B CYL_PG+
10B CTL_GND
11B TRH_V+
12B TRH1-
13B TRH3+
14B SRH_V-
15B SRH2+
16B SRH3-
17B T_FG1_M
18B S_FG2_M
19B CLEANING_ON
21B R_STAND_L2S
23B CYL_M2
25B TRM3
27B SRM1
28B SOL_POW_OUT
29B SOL_POW_IN
30B CACY_GND
31B +16V
32B RL_GND
P17-2C
P17-3C
P17-4C
P17-5C
P17-6C
P17-7C
P17-8C
P17-9C
P17-10C
P17-11C
P17-12C
P17-13C
P17-14C
P17-15C
P17-16C
P17-17C
P17-18C
P17-20B
P17-22B
P17-24B
P17-26B
P17-28B
P17-29A,B
1C GND
2C CYLH1-
3C CYLH2+
4C CYLH_V+
5C CAPH_V-
6C CAPH2+
7C CAPH3-
8C CAP_FG1_M
9C CYL_FG+
10C CTL_PRE
11C TRH_V-
12C TRH2+
13C TRH3-
14C SRH1+
15C SRH2-
16C RL_FG_V
17C T_FG2_M
19C UNLOADING
20C F_LOAD_IN
21C R_STAND_S2L
22C CYL_M1
23C CAP_M3
24C CAP_M2
25C TRM1
26C SRM3
27C SRM2
28C SOL_POW_OUT
29C SOL_POW_IN
30C CACY_GND
31C +16V
32C RL_GND
P17-2B
P17-3B
P17-4B
P17-5B
P17-6B
P17-7B
P17-8B
P17-9B
P17-10B
P17-11B
P17-12B
P17-13B
P17-14B
P17-15B
P17-16B
P17-17B
P17-20A
P17-21A
P17-22A
P17-23A
P17-24A
P17-25A
P17-26A
P17-27A
P17-28A
SOL_POWER
L1 VLP0017
L2 VLP0017
21DQ04 D1
C2 16V6800
C1 16V6800
GND
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
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11
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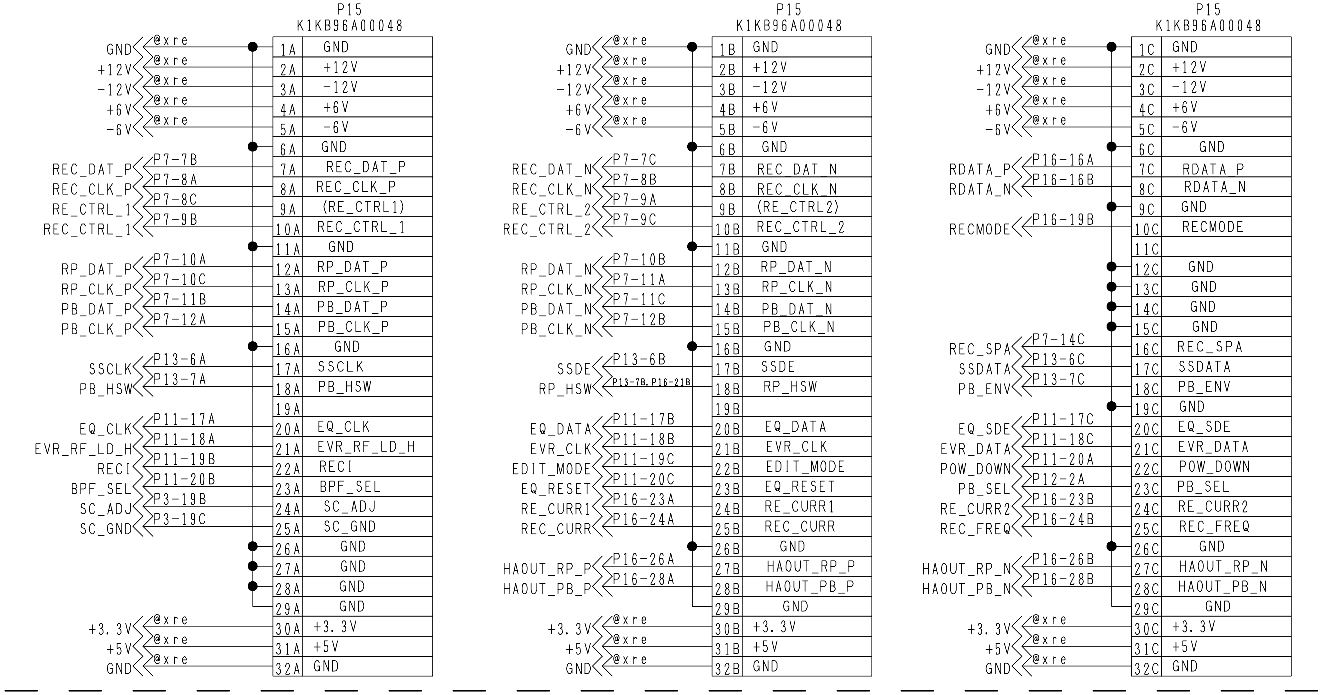
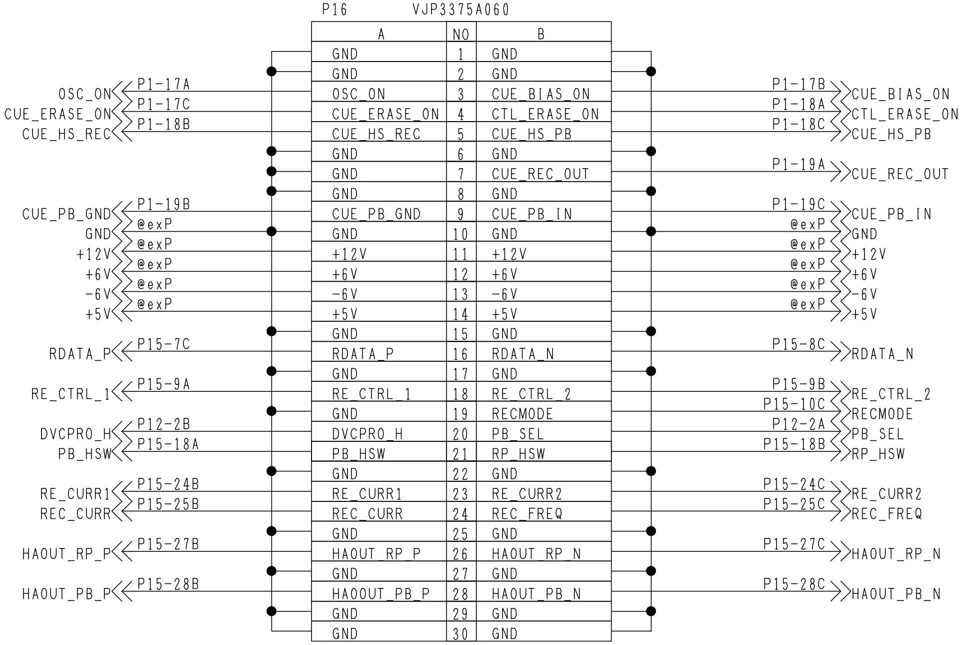
15

COMPONENT NAME	MOTHER	07/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (7/10)	
	SCM125	


P15
K1KB96A00048
GND @xre 1A GND
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
REC_DAT_P P7-7B 7A REC_DAT_P
REC_CLK_P P7-8A 8A REC_CLK_P
RE_CTRL_1 P7-8C 9A (RE_CTRL1)
REC_CTRL_1 P7-9B 10A REC_CTRL_1
11A GND
RP_DAT_P P7-10A 12A RP_DAT_P
RP_CLK_P P7-10C 13A RP_CLK_P
PB_DAT_P P7-11B 14A PB_DAT_P
PB_CLK_P P7-12A 15A PB_CLK_P
16A GND
SSCLK P13-6A 17A SSCLK
PB_HSW P13-7A 18A PB_HSW
19A
EQ_CLK P11-17A 20A EQ_CLK
EVR_RF_LD_H P11-18A 21A EVR_RF_LD_H
RECI P11-19B 22A RECI
BPF_SEL P11-20B 23A BPF_SEL
SC_ADJ P3-19B 24A SC_ADJ
SC_GND P3-19C 25A SC_GND
26A GND
27A GND
28A GND
29A GND
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P15
K1KB96A00048
GND @xre 1B GND
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
REC_DAT_N P7-7C 7B REC_DAT_N
REC_CLK_N P7-8B 8B REC_CLK_N
RE_CTRL_2 P7-9A 9B (RE_CTRL2)
REC_CTRL_2 P7-9C 10B REC_CTRL_2
11B GND
RP_DAT_N P7-10B 12B RP_DAT_N
RP_CLK_N P7-11A 13B RP_CLK_N
PB_DAT_N P7-11C 14B PB_DAT_N
PB_CLK_N P7-12B 15B PB_CLK_N
16B GND
SSDE P13-6B 17B SSDE
RP_HSW P13-7B, P16-21B 18B RP_HSW
19B
EQ_DATA P11-17B 20B EQ_DATA
EVR_CLK P11-18B 21B EVR_CLK
EDIT_MODE P11-19C 22B EDIT_MODE
EQ_RESET P11-20C 23B EQ_RESET
RE_CURR1 P16-23A 24B RE_CURR1
REC_CURR P16-24A 25B REC_CURR
26B GND
HAOUT_RP_P P16-26A 27B HAOUT_RP_P
HAOUT_PB_P P16-28A 28B HAOUT_PB_P
29B GND
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P15
K1KB96A00048
GND @xre 1C GND
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
RDATA_P P16-16A 7C RDATA_P
RDATA_N P16-16B 8C RDATA_N
9C GND
RECMODE P16-19B 10C RECMODE
11C
12C GND
13C GND
14C GND
15C GND
REC_SPA P7-14C 16C REC_SPA
SSDATA P13-6C 17C SSDATA
PB_ENV P13-7C 18C PB_ENV
19C GND
EQ_SDE P11-17C 20C EQ_SDE
EVR_DATA P11-18C 21C EVR_DATA
POW_DOWN P11-20A 22C POW_DOWN
PB_SEL P12-2A 23C PB_SEL
RE_CURR2 P16-23B 24C RE_CURR2
REC_FREQ P16-24B 25C REC_FREQ
26C GND
HAOUT_RP_N P16-26B 27C HAOUT_RP_N
HAOUT_PB_N P16-28B 28C HAOUT_PB_N
29C GND
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND

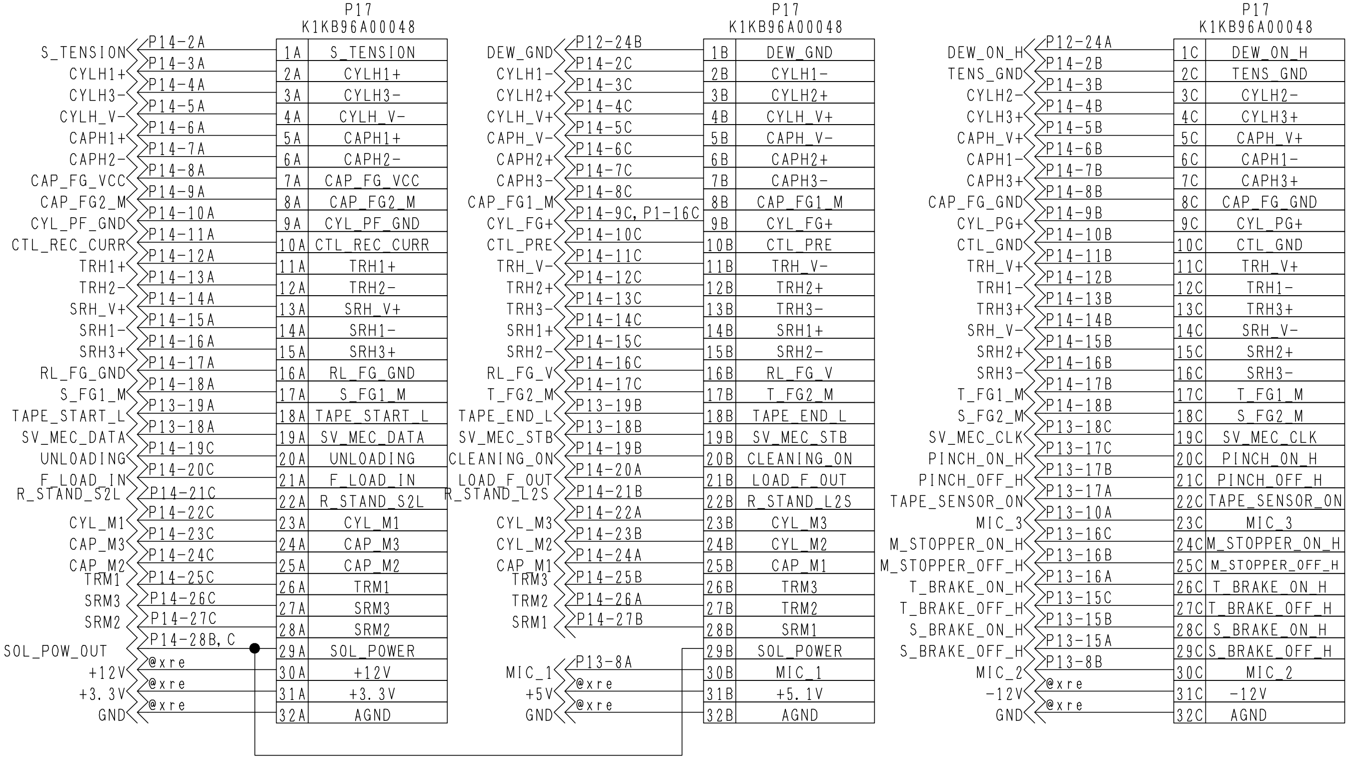
F8 (RF/EQ)


P16 VJP3375A060
A NO B
GND 1 GND
GND 2 GND
OSC_ON P1-17A | OSC_ON 3 CUE_BIAS_ON | P1-17B CUE_BIAS_ON
CUE_ERASE_ON P1-17C | CUE_ERASE_ON 4 CTL_ERASE_ON | P1-18A CTL_ERASE_ON
CUE_HS_REC P1-18B | CUE_HS_REC 5 CUE_HS_PB | P1-18C CUE_HS_PB
GND 6 GND
GND 7 CUE_REC_OUT | P1-19A CUE_REC_OUT
GND 8 GND
CUE_PB_GND P1-19B | CUE_PB_GND 9 CUE_PB_IN | P1-19C CUE_PB_IN
GND @exP | GND 10 GND | @exP GND
+12V @exP | +12V 11 +12V | @exP +12V
+6V @exP | +6V 12 +6V | @exP +6V
-6V @exP | -6V 13 -6V | @exP -6V
+5V @exP | +5V 14 +5V | @exP +5V
GND 15 GND
RDATA_P P15-7C | RDATA_P 16 RDATA_N | P15-8C RDATA_N
GND 17 GND
RE_CTRL_1 P15-9A | RE_CTRL_1 18 RE_CTRL_2 | P15-9B RE_CTRL_2
GND 19 RECMODE | P15-10C RECMODE
DVCPRO_H P12-2B | DVCPRO_H 20 PB_SEL | P12-2A PB_SEL
PB_HSW P15-18A | PB_HSW 21 RP_HSW | P15-18B RP_HSW
GND 22 GND
RE_CURR1 P15-24B | RE_CURR1 23 RE_CURR2 | P15-24C RE_CURR2
REC_CURR P15-25B | REC_CURR 24 REC_FREQ | P15-25C REC_FREQ
GND 25 GND
HAOUT_RP_P P15-27B | HAOUT_RP_P 26 HAOUT_RP_N | P15-27C HAOUT_RP_N
GND 27 GND
HAOUT_PB_P P15-28B | HAOOUT_PB_P 28 HAOUT_PB_N | P15-28C HAOUT_PB_N
GND 29 GND
GND 30 GND

HEAD_BUFF (RF/CUE)

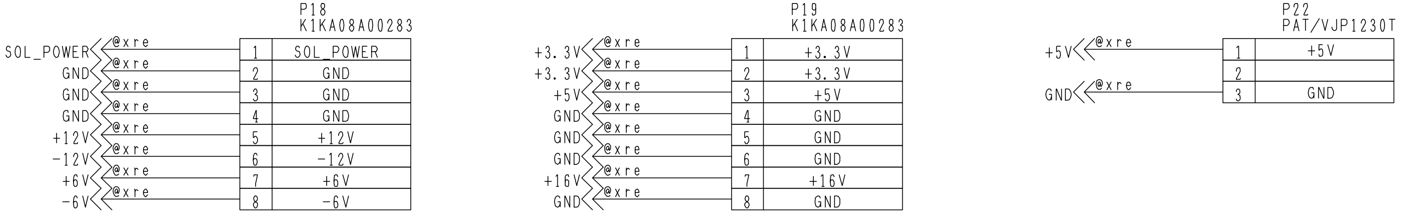
COMPONENT NAME	**MOTHER**	08/10
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C14A	KR0Q24 (8/10)	
	SCM126	

MECHA_IF

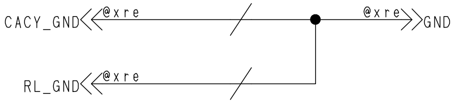


P17
K1KB96A00048
S_TENSION P14-2A 1A S_TENSION
CYLH1+ P14-3A 2A CYLH1+
CYLH3- P14-4A 3A CYLH3-
CYLH_V- P14-5A 4A CYLH_V-
CAPH1+ P14-6A 5A CAPH1+
CAPH2- P14-7A 6A CAPH2-
CAP_FG_VCC P14-8A 7A CAP_FG_VCC
CAP_FG2_M P14-9A 8A CAP_FG2_M
CYL_PF_GND P14-10A 9A CYL_PF_GND
CTL_REC_CURR P14-11A 10A CTL_REC_CURR
TRH1+ P14-12A 11A TRH1+
TRH2- P14-13A 12A TRH2-
SRH_V+ P14-14A 13A SRH_V+
SRH1- P14-15A 14A SRH1-
SRH3+ P14-16A 15A SRH3+
RL_FG_GND P14-17A 16A RL_FG_GND
S_FG1_M P14-18A 17A S_FG1_M
TAPE_START_L P13-19A 18A TAPE_START_L
SV_MEC_DATA P13-18A 19A SV_MEC_DATA
UNLOADING P14-19C 20A UNLOADING
F_LOAD_IN P14-20C 21A F_LOAD_IN
R_STAND_S2L P14-21C 22A R_STAND_S2L
CYL_M1 P14-22C 23A CYL_M1
CAP_M3 P14-23C 24A CAP_M3
CAP_M2 P14-24C 25A CAP_M2
TRM1 P14-25C 26A TRM1
SRM3 P14-26C 27A SRM3
SRM2 P14-27C 28A SRM2
SOL_POW_OUT P14-28B,C 29A SOL_POWER
+12V @xre 30A +12V
+3.3V @xre 31A +3.3V
GND @xre 32A AGND
P17
K1KB96A00048
DEW_GND P12-24B 1B DEW_GND
CYLH1- P14-2C 2B CYLH1-
CYLH2+ P14-3C 3B CYLH2+
CYLH_V+ P14-4C 4B CYLH_V+
CAPH_V- P14-5C 5B CAPH_V-
CAPH2+ P14-6C 6B CAPH2+
CAPH3- P14-7C 7B CAPH3-
CAP_FG1_M P14-8C 8B CAP_FG1_M
CYL_FG+ P14-9C,P1-16C 9B CYL_FG+
CTL_PRE P14-10C 10B CTL_PRE
TRH_V- P14-11C 11B TRH_V-
TRH2+ P14-12C 12B TRH2+
TRH3- P14-13C 13B TRH3-
SRH1+ P14-14C 14B SRH1+
SRH2- P14-15C 15B SRH2-
RL_FG_V P14-16C 16B RL_FG_V
T_FG2_M P14-17C 17B T_FG2_M
TAPE_END_L P13-19B 18B TAPE_END_L
SV_MEC_STB P13-18B 19B SV_MEC_STB
CLEANING_ON P14-19B 20B CLEANING_ON
LOAD_F_OUT P14-20A 21B LOAD_F_OUT
R_STAND_L2S P14-21B 22B R_STAND_L2S
CYL_M3 P14-22A 23B CYL_M3
CYL_M2 P14-23B 24B CYL_M2
CAP_M1 P14-24A 25B CAP_M1
TRM3 P14-25B 26B TRM3
TRM2 P14-26A 27B TRM2
SRM1 P14-27B 28B SRM1
29B SOL_POWER
MIC_1 P13-8A 30B MIC_1
+5V @xre 31B +5.1V
GND @xre 32B AGND
P17
K1KB96A00048
DEW_ON_H P12-24A 1C DEW_ON_H
TENS_GND P14-2B 2C TENS_GND
CYLH2- P14-3B 3C CYLH2-
CYLH3+ P14-4B 4C CYLH3+
CAPH_V+ P14-5B 5C CAPH_V+
CAPH1- P14-6B 6C CAPH1-
CAPH3+ P14-7B 7C CAPH3+
CAP_FG_GND P14-8B 8C CAP_FG_GND
CYL_PG+ P14-9B 9C CYL_PG+
CTL_GND P14-10B 10C CTL_GND
TRH_V+ P14-11B 11C TRH_V+
TRH1- P14-12B 12C TRH1-
TRH3+ P14-13B 13C TRH3+
SRH_V- P14-14B 14C SRH_V-
SRH2+ P14-15B 15C SRH2+
SRH3- P14-16B 16C SRH3-
T_FG1_M P14-17B 17C T_FG1_M
S_FG2_M P14-18B 18C S_FG2_M
SV_MEC_CLK P13-18C 19C SV_MEC_CLK
PINCH_ON_H P13-17C 20C PINCH_ON_H
PINCH_OFF_H P13-17B 21C PINCH_OFF_H
TAPE_SENSOR_ON P13-17A 22C TAPE_SENSOR_ON
MIC_3 P13-10A 23C MIC_3
M_STOPPER_ON_H P13-16C 24C M_STOPPER_ON_H
M_STOPPER_OFF_H P13-16B 25C M_STOPPER_OFF_H
T_BRAKE_ON_H P13-16A 26C T_BRAKE_ON_H
T_BRAKE_OFF_H P13-15C 27C T_BRAKE_OFF_H
S_BRAKE_ON_H P13-15B 28C S_BRAKE_ON_H
S_BRAKE_OFF_H P13-15A 29C S_BRAKE_OFF_H
MIC_2 P13-8B 30C MIC_2
-12V @xre 31C -12V
GND @xre 32C AGND

POWER



P18
K1KA08A00283
SOL_POWER @xre 1 SOL_POWER
GND @xre 2 GND
GND @xre 3 GND
GND @xre 4 GND
+12V @xre 5 +12V
-12V @xre 6 -12V
+6V @xre 7 +6V
-6V @xre 8 -6V
P19
K1KA08A00283
+3.3V @xre 1 +3.3V
+3.3V @xre 2 +3.3V
+5V @xre 3 +5V
GND @xre 4 GND
GND @xre 5 GND
GND @xre 6 GND
+16V @xre 7 +16V
GND @xre 8 GND
P22
PAT/VJP1230T
+5V @xre 1 +5V
2
GND @xre 3 GND



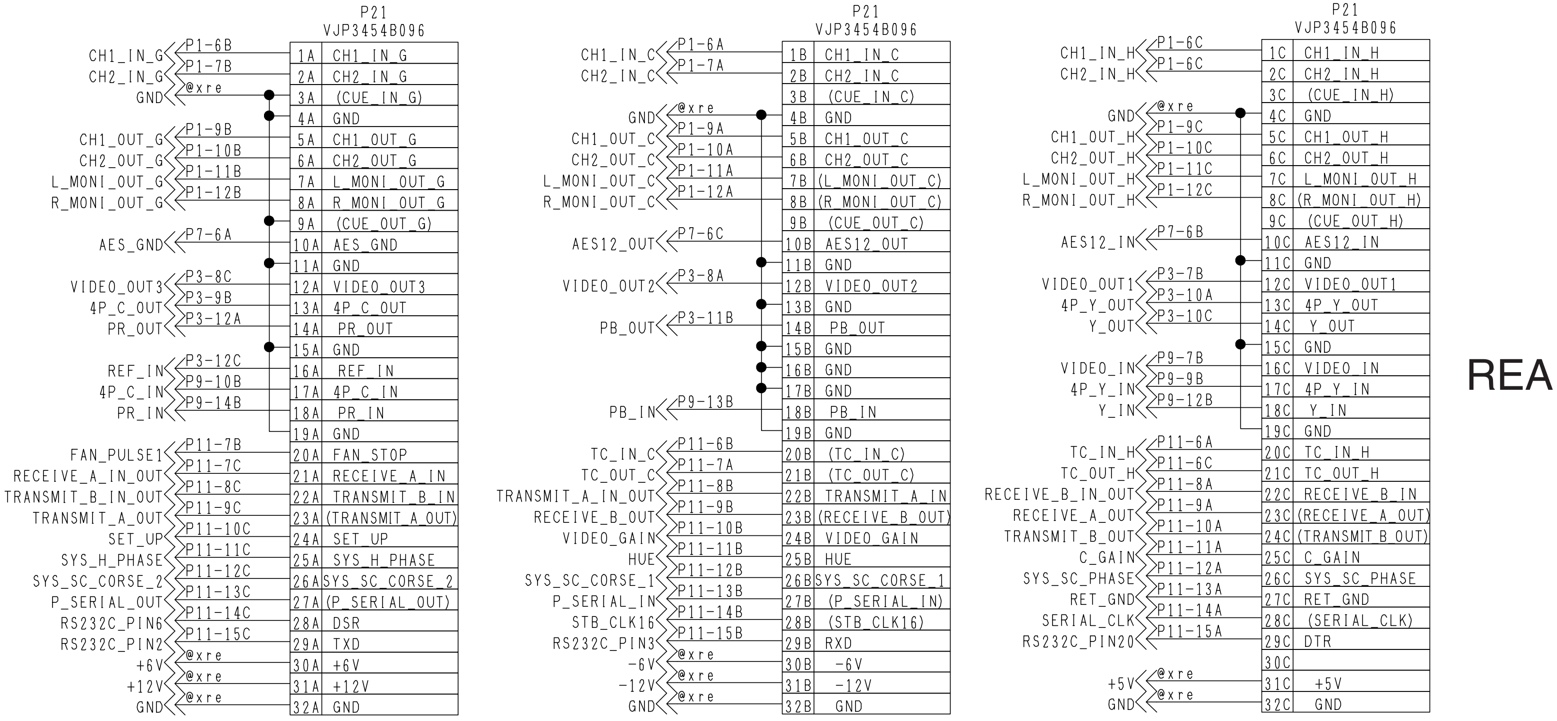
CACY_GND @xre
@xre GND
RL_GND @xre

COMPONENT NAME: **MOTHER** 09/10

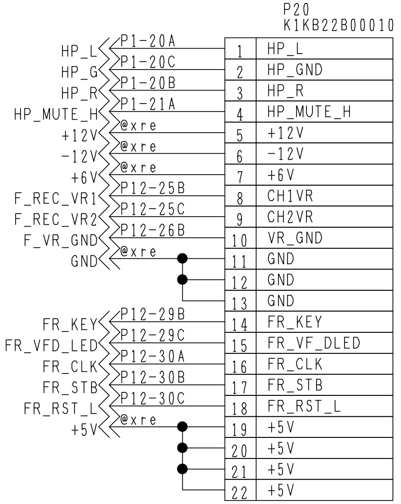
CIRCUIT BOARD NO.: VEP80C14A

DRAWING NO.: KR0Q24 (9/10)

SCM127

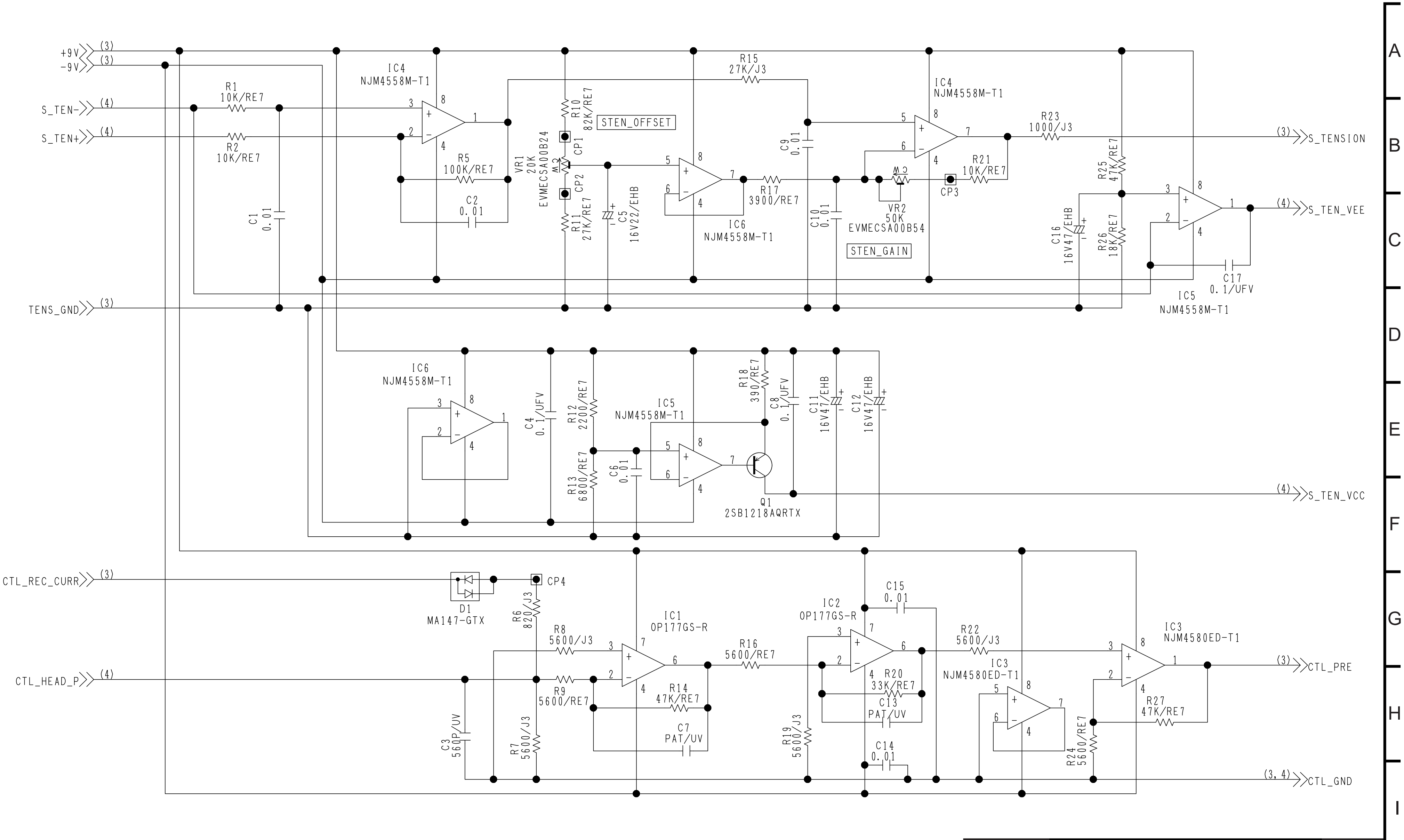

P21
VJP3454B096
CH1_IN_G P1-6B 1A CH1_IN_G
CH2_IN_G P1-7B 2A CH2_IN_G
GND @xre 3A (CUE_IN_G)
4A GND
CH1_OUT_G P1-9B 5A CH1_OUT_G
CH2_OUT_G P1-10B 6A CH2_OUT_G
L_MONI_OUT_G P1-11B 7A L_MONI_OUT_G
R_MONI_OUT_G P1-12B 8A R_MONI_OUT_G
9A (CUE_OUT_G)
AES_GND P7-6A 10A AES_GND
11A GND
VIDEO_OUT3 P3-8C 12A VIDEO_OUT3
4P_C_OUT P3-9B 13A 4P_C_OUT
PR_OUT P3-12A 14A PR_OUT
15A GND
REF_IN P3-12C 16A REF_IN
4P_C_IN P9-10B 17A 4P_C_IN
PR_IN P9-14B 18A PR_IN
19A GND
FAN_PULSE1 P11-7B 20A FAN_STOP
RECEIVE_A_IN_OUT P11-7C 21A RECEIVE_A_IN
TRANSMIT_B_IN_OUT P11-8C 22A TRANSMIT_B_IN
TRANSMIT_A_OUT P11-9C 23A (TRANSMIT_A_OUT)
SET_UP P11-10C 24A SET_UP
SYS_H_PHASE P11-11C 25A SYS_H_PHASE
SYS_SC_CORSE_2 P11-12C 26A SYS_SC_CORSE_2
P_SERIAL_OUT P11-13C 27A (P_SERIAL_OUT)
RS232C_PIN6 P11-14C 28A DSR
RS232C_PIN2 P11-15C 29A TXD
+6V @xre 30A +6V
+12V @xre 31A +12V
GND @xre 32A GND
P21
VJP3454B096
CH1_IN_C P1-6A 1B CH1_IN_C
CH2_IN_C P1-7A 2B CH2_IN_C
3B (CUE_IN_C)
GND @xre 4B GND
CH1_OUT_C P1-9A 5B CH1_OUT_C
CH2_OUT_C P1-10A 6B CH2_OUT_C
L_MONI_OUT_C P1-11A 7B (L_MONI_OUT_C)
R_MONI_OUT_C P1-12A 8B (R_MONI_OUT_C)
9B (CUE_OUT_C)
AES12_OUT P7-6C 10B AES12_OUT
11B GND
VIDEO_OUT2 P3-8A 12B VIDEO_OUT2
13B GND
PB_OUT P3-11B 14B PB_OUT
15B GND
16B GND
17B GND
PB_IN P9-13B 18B PB_IN
19B GND
TC_IN_C P11-6B 20B (TC_IN_C)
TC_OUT_C P11-7A 21B (TC_OUT_C)
TRANSMIT_A_IN_OUT P11-8B 22B TRANSMIT_A_IN
RECEIVE_B_OUT P11-9B 23B (RECEIVE_B_OUT)
VIDEO_GAIN P11-10B 24B VIDEO_GAIN
HUE P11-11B 25B HUE
SYS_SC_CORSE_1 P11-12B 26B SYS_SC_CORSE_1
P_SERIAL_IN P11-13B 27B (P_SERIAL_IN)
STB_CLK16 P11-14B 28B (STB_CLK16)
RS232C_PIN3 P11-15B 29B RXD
-6V @xre 30B -6V
-12V @xre 31B -12V
GND @xre 32B GND
P21
VJP3454B096
CH1_IN_H P1-6C 1C CH1_IN_H
CH2_IN_H P1-6C 2C CH2_IN_H
3C (CUE_IN_H)
GND @xre 4C GND
CH1_OUT_H P1-9C 5C CH1_OUT_H
CH2_OUT_H P1-10C 6C CH2_OUT_H
L_MONI_OUT_H P1-11C 7C L_MONI_OUT_H
R_MONI_OUT_H P1-12C 8C (R_MONI_OUT_H)
9C (CUE_OUT_H)
AES12_IN P7-6B 10C AES12_IN
11C GND
VIDEO_OUT1 P3-7B 12C VIDEO_OUT1
4P_Y_OUT P3-10A 13C 4P_Y_OUT
Y_OUT P3-10C 14C Y_OUT
15C GND
VIDEO_IN P9-7B 16C VIDEO_IN
4P_Y_IN P9-9B 17C 4P_Y_IN
Y_IN P9-12B 18C Y_IN
19C GND
TC_IN_H P11-6A 20C TC_IN_H
TC_OUT_H P11-6C 21C TC_OUT_H
RECEIVE_B_IN_OUT P11-8A 22C RECEIVE_B_IN
RECEIVE_A_OUT P11-9A 23C (RECEIVE_A_OUT)
TRANSMIT_B_OUT P11-10A 24C (TRANSMIT_B_OUT)
C_GAIN P11-11A 25C C_GAIN
SYS_SC_PHASE P11-12A 26C SYS_SC_PHASE
RET_GND P11-13A 27C RET_GND
SERIAL_CLK P11-14A 28C (SERIAL_CLK)
RS232C_PIN20 P11-15A 29C DTR
30C
+5V @xre 31C +5V
GND @xre 32C GND

REAR (VA_JACK)


P20
K1KB22B00010
HP_L P1-20A 1 HP_L
HP_G P1-20C 2 HP_GND
HP_R P1-20B 3 HP_R
HP_MUTE_H P1-21A 4 HP_MUTE_H
+12V @xre 5 +12V
-12V @xre 6 -12V
+6V @xre 7 +6V
F_REC_VR1 P12-25B 8 CH1VR
F_REC_VR2 P12-25C 9 CH2VR
F_VR_GND P12-26B 10 VR_GND
GND @xre 11 GND
12 GND
13 GND
FR_KEY P12-29B 14 FR_KEY
FR_VFD_LED P12-29C 15 FR_VF_DLED
FR_CLK P12-30A 16 FR_CLK
FR_STB P12-30B 17 FR_STB
FR_RST_L P12-30C 18 FR_RST_L
+5V @xre 19 +5V
20 +5V
21 +5V
22 +5V

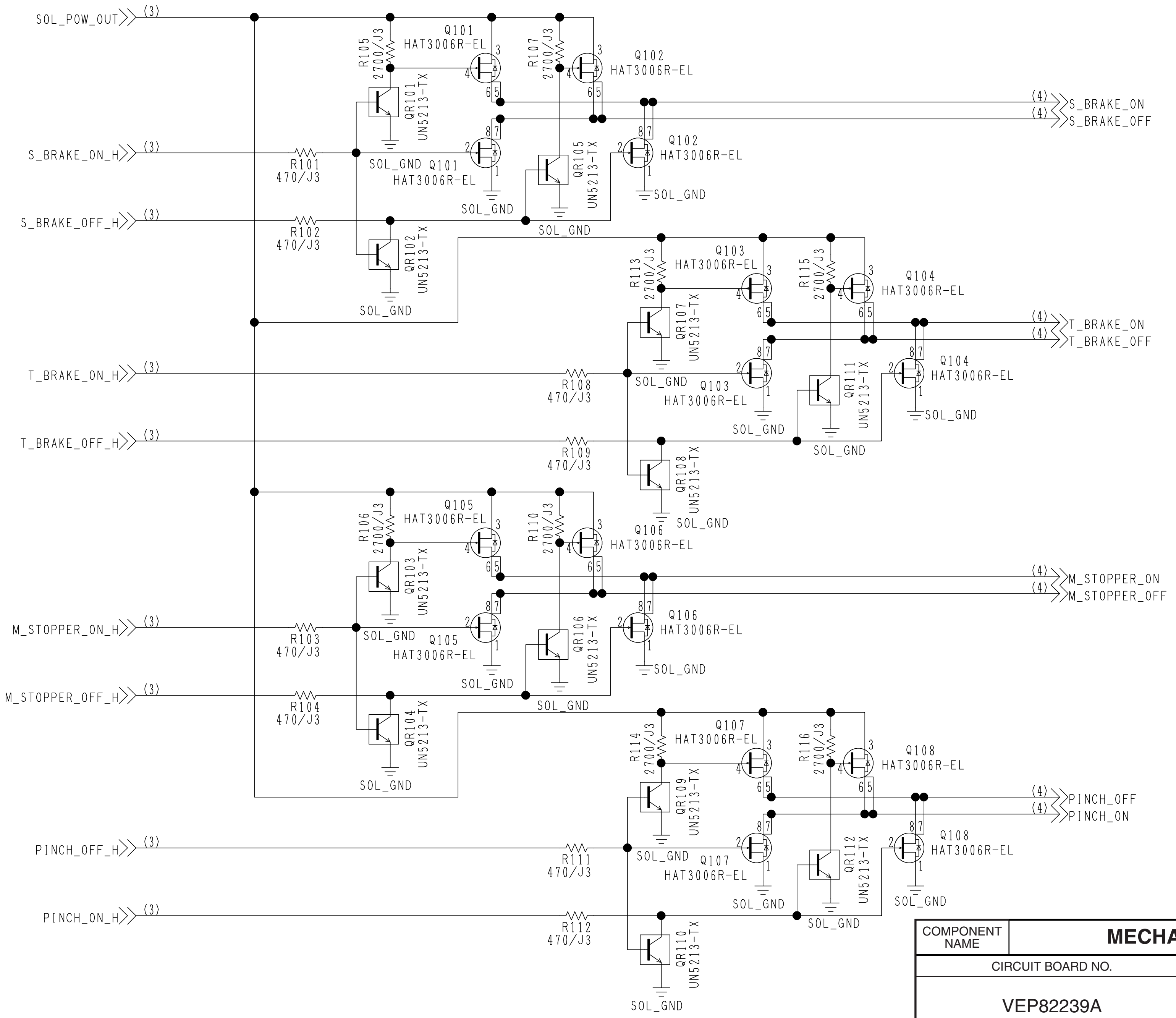
FRONT

COMPONENT NAME	MOTHER		10/10
CIRCUIT BOARD NO.		DRAWING NO.	
VEP80C14A		KR0Q24 (10/10)	
		SCM128	

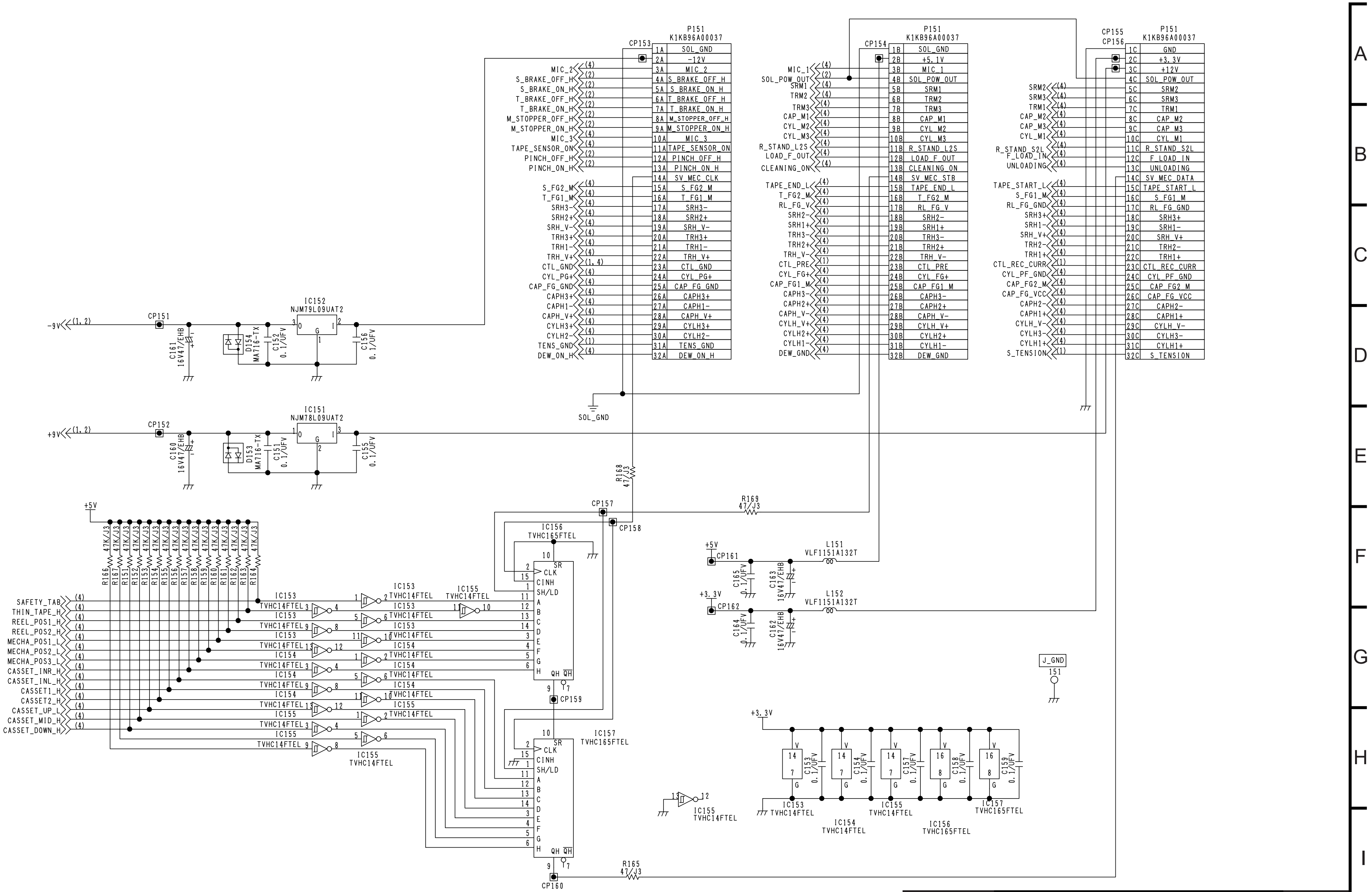

+9V
-9V
(3)
S_TEN-
S_TEN+
(4)
TENS_GND
CTL_REC_CURR
CTL_HEAD_P
R1
10K/RE7
R2
10K/RE7
C1
0.01
IC4
NJM4558M-T1
R5
100K/RE7
C2
0.01
VR1
20K
EVMECSA00B24
CP1
CP2
R10
82K/RE7
R11
27K/RE7
C5
16V22/EHB
STEN_OFFSET
R15
27K/J3
IC6
NJM4558M-T1
R17
3900/RE7
C9
0.01
C10
0.01
VR2
50K
EVMECSA00B54
STEN_GAIN
CP3
R21
10K/RE7
R23
1000/J3
S_TENSION
R25
47K/RE7
R26
18K/RE7
C16
16V47/EHB
C17
0.1/UFV
IC5
NJM4558M-T1
S_TEN_VEE
C4
0.1/UFV
R12
2200/RE7
R13
6800/RE7
C6
0.01
R18
390/RE7
C8
0.1/UFV
C11
16V47/EHB
C12
16V47/EHB
Q1
2SB1218AQRTX
S_TEN_VCC
D1
MA147-GTX
CP4
R6
820/J3
R8
5600/J3
R9
5600/RE7
R7
5600/J3
C3
560P/UV
IC1
OP177GS-R
R14
47K/RE7
C7
PAT/UV
R16
5600/RE7
IC2
OP177GS-R
C15
0.01
R19
5600/J3
R20
33K/RE7
C13
PAT/UV
C14
0.01
R22
5600/J3
IC3
NJM4580ED-T1
R24
5600/RE7
R27
47K/RE7
CTL_PRE
(3,4)
CTL_GND
A
B
C
D
E
F
G
H
I
J

COMPONENT NAME	**MECHA_IF**	01/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82239A	KR2E02 (1/4)	
	SCM129	

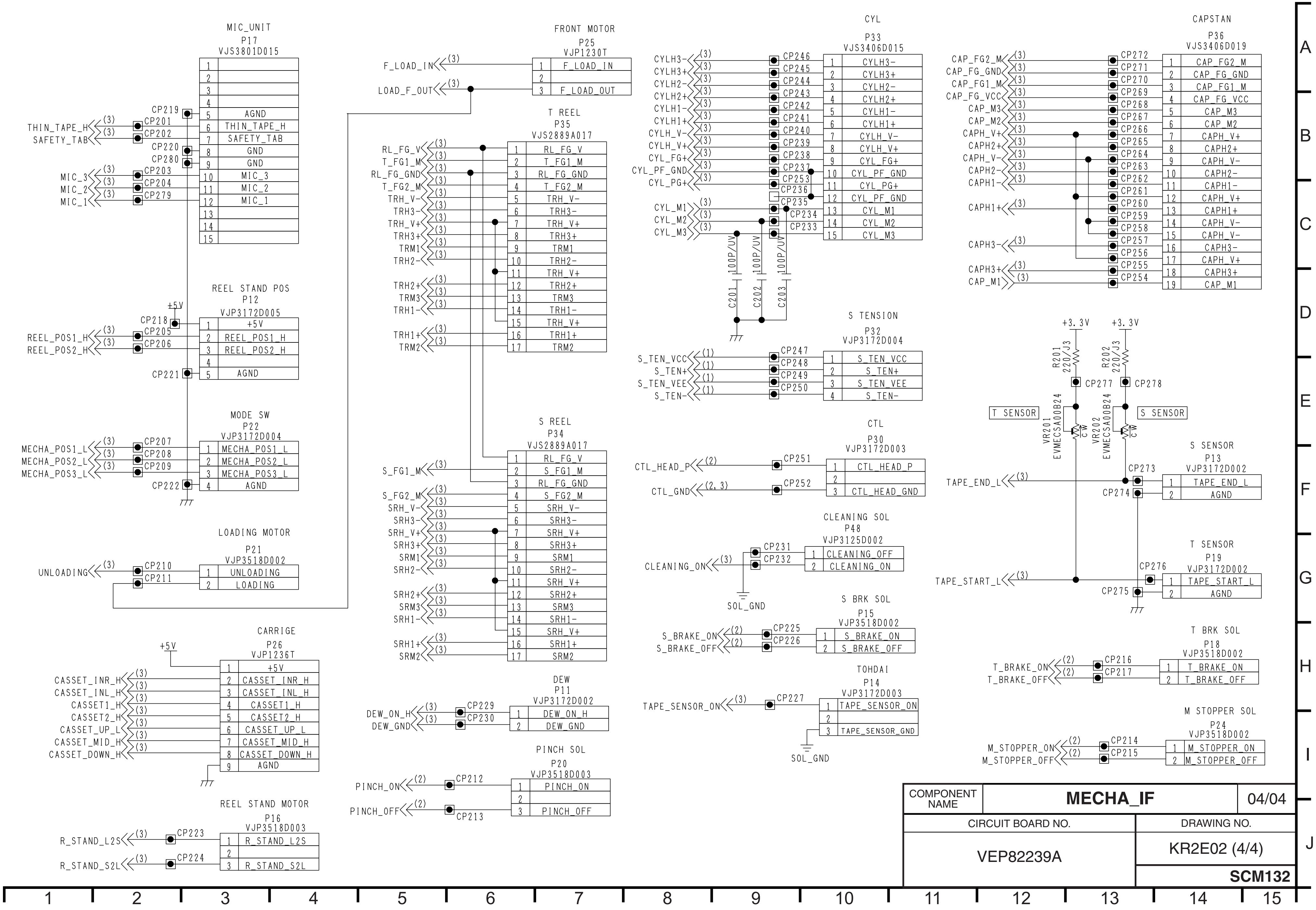
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


SOL_POW_OUT (3)
S_BRAKE_ON_H (3)
S_BRAKE_OFF_H (3)
T_BRAKE_ON_H (3)
T_BRAKE_OFF_H (3)
M_STOPPER_ON_H (3)
M_STOPPER_OFF_H (3)
PINCH_OFF_H (3)
PINCH_ON_H (3)
(4) S_BRAKE_ON
(4) S_BRAKE_OFF
(4) T_BRAKE_ON
(4) T_BRAKE_OFF
(4) M_STOPPER_ON
(4) M_STOPPER_OFF
(4) PINCH_OFF
(4) PINCH_ON
R101 470/J3
R102 470/J3
R103 470/J3
R104 470/J3
R108 470/J3
R109 470/J3
R111 470/J3
R112 470/J3
R105 2700/J3
R106 2700/J3
R107 2700/J3
R110 2700/J3
R113 2700/J3
R114 2700/J3
R115 2700/J3
R116 2700/J3
Q101 HAT3006R-EL
Q102 HAT3006R-EL
Q103 HAT3006R-EL
Q104 HAT3006R-EL
Q105 HAT3006R-EL
Q106 HAT3006R-EL
Q107 HAT3006R-EL
Q108 HAT3006R-EL
QR101 UN5213-TX
QR102 UN5213-TX
QR103 UN5213-TX
QR104 UN5213-TX
QR105 UN5213-TX
QR106 UN5213-TX
QR107 UN5213-TX
QR108 UN5213-TX
QR109 UN5213-TX
QR110 UN5213-TX
QR111 UN5213-TX
QR112 UN5213-TX
SOL_GND
1 2 3 4 5 6 7 8
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

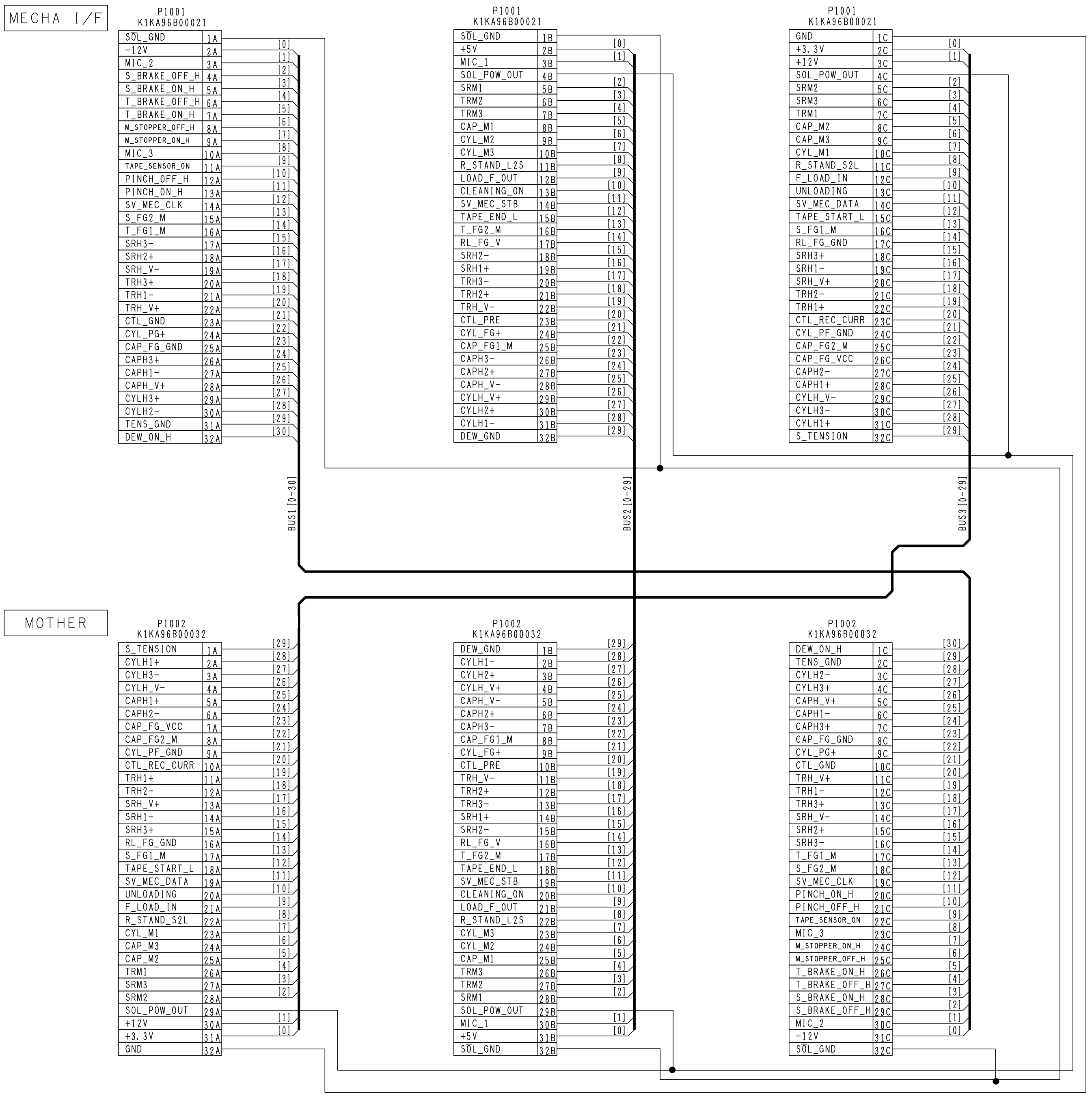
COMPONENT NAME	MECHA_IF		02/04
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82239A		KR2E02 (2/4)	
		SCM130	


P151 K1KB96A00037
CP153
1A SOL_GND
2A -12V
3A MIC_2
4A S_BRAKE_OFF_H
5A S_BRAKE_ON_H
6A T_BRAKE_OFF_H
7A T_BRAKE_ON_H
8A M_STOPPER_OFF_H
9A M_STOPPER_ON_H
10A MIC_3
11A TAPE_SENSOR_ON
12A PINCH_OFF_H
13A PINCH_ON_H
14A SV_MEC_CLK
15A S_FG2_M
16A T_FG1_M
17A SRH3-
18A SRH2+
19A SRH_V-
20A TRH3+
21A TRH1-
22A TRH_V+
23A CTL_GND
24A CYL_PG+
25A CAP_FG_GND
26A CAPH3+
27A CAPH1-
28A CAPH_V+
29A CYLH3+
30A CYLH2-
31A TENS_GND
32A DEW_ON_H
CP154
1B SOL_GND
2B +5.1V
3B MIC_1
4B SOL_POW_OUT
5B SRM1
6B TRM2
7B TRM3
8B CAP_M1
9B CYL_M2
10B CYL_M3
11B R_STAND_L2S
12B LOAD_F_OUT
13B CLEANING_ON
14B SV_MEC_STB
15B TAPE_END_L
16B T_FG2_M
17B RL_FG_V
18B SRH2-
19B SRH1+
20B TRH3-
21B TRH2+
22B TRH_V-
23B CTL_PRE
24B CYL_FG+
25B CAP_FG1_M
26B CAPH3-
27B CAPH2+
28B CAPH_V-
29B CYLH_V+
30B CYLH2+
31B CYLH1-
32B DEW_GND
CP155
CP156
1C GND
2C +3.3V
3C +12V
4C SOL_POW_OUT
5C SRM2
6C SRM3
7C TRM1
8C CAP_M2
9C CAP_M3
10C CYL_M1
11C R_STAND_S2L
12C F_LOAD_IN
13C UNLOADING
14C SV_MEC_DATA
15C TAPE_START_L
16C S_FG1_M
17C RL_FG_GND
18C SRH3+
19C SRH1-
20C SRH_V+
21C TRH2-
22C TRH1+
23C CTL_REC_CURR
24C CYL_PF_GND
25C CAP_FG2_M
26C CAP_FG_VCC
27C CAPH2-
28C CAPH1+
29C CYLH_V-
30C CYLH3-
31C CYLH1+
32C S_TENSION
SOL_GND
-9V (1,2)
CP151
C161 16V47/EHB
D154 MA716-TX
C152 0.1/UFV
IC152 NJM79L09UAT2
C156 0.1/UFV
+9V (1,2)
CP152
C160 16V47/EHB
D153 MA716-TX
C151 0.1/UFV
IC151 NJM78L09UAT2
C155 0.1/UFV
R168 47/J3
R169 47/J3
CP157
CP158
+5V
R166 R167 R151 R152 R153 R154 R155 R156 R157 R158 R159 R160 R161 R162 R163 R164 47K/J3
SAFETY_TAB
THIN_TAPE_H
REEL_POS1_H
REEL_POS2_H
MECHA_POS1_L
MECHA_POS2_L
MECHA_POS3_L
CASSET_INR_H
CASSET_INL_H
CASSET1_H
CASSET2_H
CASSET_UP_L
CASSET_MID_H
CASSET_DOWN_H
IC153 TVHC14FTEL
IC154 TVHC14FTEL
IC155 TVHC14FTEL
IC156 TVHC165FTEL
IC157 TVHC165FTEL
CP159
CP160
R165 47/J3
+5V CP161
C165 0.1/UFV
C163 16V47/EHB
L151 VLF1151A132T
+3.3V CP162
C164 0.1/UFV
C162 16V47/EHB
L152 VLF1151A132T
J_GND 151
+3.3V
C153 0.1/UFV
C154 0.1/UFV
C157 0.1/UFV
C158 0.1/UFV
C159 0.1/UFV
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

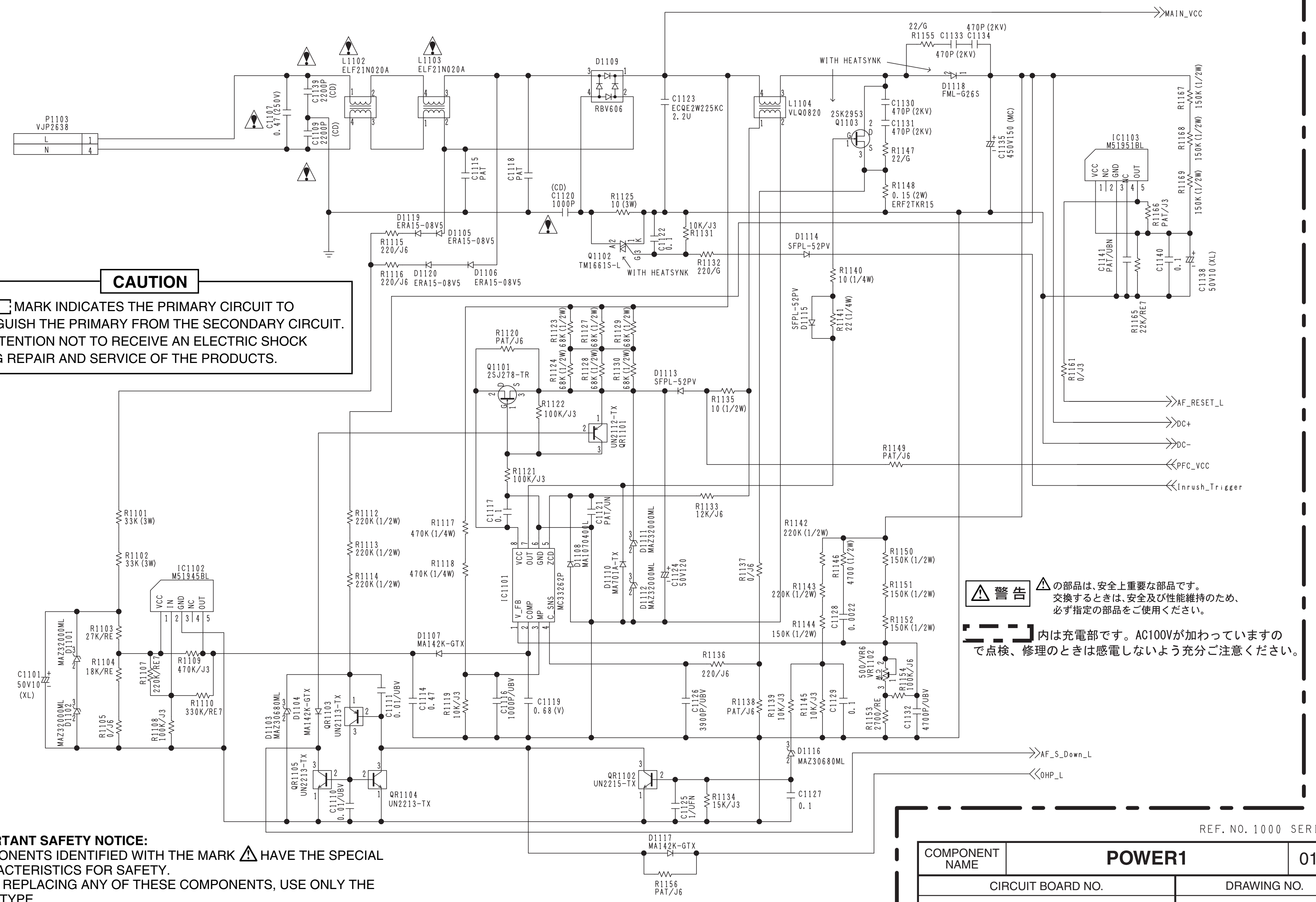
COMPONENT NAME	MECHA_IF		03/04
CIRCUIT BOARD NO.		DRAWING NO.	
VEP82239A		KR2E02 (3/4)	
		SCM131	


MIC_UNIT
P17
VJS3801D015
AGND
THIN_TAPE_H
SAFETY_TAB
GND
MIC_3
MIC_2
MIC_1
CP219
CP201
CP202
CP220
CP280
CP203
CP204
CP279
REEL STAND POS
P12
VJP3172D005
+5V
REEL_POS1_H
REEL_POS2_H
AGND
CP218
CP205
CP206
CP221
MODE SW
P22
VJP3172D004
MECHA_POS1_L
MECHA_POS2_L
MECHA_POS3_L
AGND
CP207
CP208
CP209
CP222
LOADING MOTOR
P21
VJP3518D002
UNLOADING
LOADING
CP210
CP211
CARRIGE
P26
VJP1236T
+5V
CASSET_INR_H
CASSET_INL_H
CASSET1_H
CASSET2_H
CASSET_UP_L
CASSET_MID_H
CASSET_DOWN_H
AGND
REEL STAND MOTOR
P16
VJP3518D003
R_STAND_L2S
R_STAND_S2L
CP223
CP224
FRONT MOTOR
P25
VJP1230T
F_LOAD_IN
F_LOAD_OUT
LOAD_F_OUT
T REEL
P35
VJS2889A017
RL_FG_V
T_FG1_M
RL_FG_GND
T_FG2_M
TRH_V-
TRH3-
TRH_V+
TRH3+
TRM1
TRH2-
TRH2+
TRM3
TRH1-
TRH1+
TRM2
S REEL
P34
VJS2889A017
S_FG1_M
S_FG2_M
SRH_V-
SRH3-
SRH_V+
SRH3+
SRM1
SRH2-
SRH2+
SRM3
SRH1-
SRH1+
SRM2
DEW
P11
VJP3172D002
DEW_ON_H
DEW_GND
CP229
CP230
PINCH SOL
P20
VJP3518D003
PINCH_ON
PINCH_OFF
CP212
CP213
CYL
P33
VJS3406D015
CYLH3-
CYLH3+
CYLH2-
CYLH2+
CYLH1-
CYLH1+
CYLH_V-
CYLH_V+
CYL_FG+
CYL_PF_GND
CYL_PG+
CYL_M1
CYL_M2
CYL_M3
CP246
CP245
CP244
CP243
CP242
CP241
CP240
CP239
CP238
CP237
CP253
CP236
CP235
CP234
CP233
100P/UV
C201
C202
C203
S TENSION
P32
VJP3172D004
S_TEN_VCC
S_TEN+
S_TEN_VEE
S_TEN-
CP247
CP248
CP249
CP250
CTL
P30
VJP3172D003
CTL_HEAD_P
CTL_HEAD_GND
CTL_GND
CP251
CP252
CLEANING SOL
P48
VJP3125D002
CLEANING_OFF
CLEANING_ON
CP231
CP232
SOL_GND
S BRK SOL
P15
VJP3518D002
S_BRAKE_ON
S_BRAKE_OFF
CP225
CP226
TOHDAI
P14
VJP3172D003
TAPE_SENSOR_ON
TAPE_SENSOR_GND
CP227
SOL_GND
CAPSTAN
P36
VJS3406D019
CAP_FG2_M
CAP_FG_GND
CAP_FG1_M
CAP_FG_VCC
CAP_M3
CAP_M2
CAPH_V+
CAPH2+
CAPH_V-
CAPH2-
CAPH1-
CAPH1+
CAPH3-
CAPH3+
CAP_M1
CP272
CP271
CP270
CP269
CP268
CP267
CP266
CP265
CP264
CP263
CP262
CP261
CP260
CP259
CP258
CP257
CP256
CP255
CP254
+3.3V
R201
220/J3
R202
220/J3
CP277
CP278
T SENSOR
S SENSOR
VR201
EVMECSA00B24
VR202
EVMECSA00B24
CW
S SENSOR
P13
VJP3172D002
TAPE_END_L
AGND
CP273
CP274
T SENSOR
P19
VJP3172D002
TAPE_START_L
AGND
CP276
CP275
T BRK SOL
P18
VJP3518D002
T_BRAKE_ON
T_BRAKE_OFF
CP216
CP217
M STOPPER SOL
P24
VJP3518D002
M_STOPPER_ON
M_STOPPER_OFF
CP214
CP215
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

COMPONENT NAME	MECHA_IF	04/04
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82239A	KR2E02 (4/4)	
	SCM132	


MECHA I/F
P1001
K1KA96B00021
SOL_GND 1A
-12V 2A
MIC_2 3A
S_BRAKE_OFF_H 4A
S_BRAKE_ON_H 5A
T_BRAKE_OFF_H 6A
T_BRAKE_ON_H 7A
M_STOPPER_OFF_H 8A
M_STOPPER_ON_H 9A
MIC_3 10A
TAPE_SENSOR_ON 11A
PINCH_OFF_H 12A
PINCH_ON_H 13A
SV_MEC_CLK 14A
S_FG2_M 15A
T_FG1_M 16A
SRH3- 17A
SRH2+ 18A
SRH_V- 19A
TRH3+ 20A
TRH1- 21A
TRH_V+ 22A
CTL_GND 23A
CYL_PG+ 24A
CAP_FG_GND 25A
CAPH3+ 26A
CAPH1- 27A
CAPH_V+ 28A
CYLH3+ 29A
CYLH2- 30A
TENS_GND 31A
DEW_ON_H 32A
BUS1[0-30]
P1001
K1KA96B00021
SOL_GND 1B
+5V 2B
MIC_1 3B
SOL_POW_OUT 4B
SRM1 5B
TRM2 6B
TRM3 7B
CAP_M1 8B
CYL_M2 9B
CYL_M3 10B
R_STAND_L2S 11B
LOAD_F_OUT 12B
CLEANING_ON 13B
SV_MEC_STB 14B
TAPE_END_L 15B
T_FG2_M 16B
RL_FG_V 17B
SRH2- 18B
SRH1+ 19B
TRH3- 20B
TRH2+ 21B
TRH_V- 22B
CTL_PRE 23B
CYL_FG+ 24B
CAP_FG1_M 25B
CAPH3- 26B
CAPH2+ 27B
CAPH_V- 28B
CYLH_V+ 29B
CYLH2+ 30B
CYLH1- 31B
DEW_GND 32B
BUS2[0-29]
P1001
K1KA96B00021
GND 1C
+3.3V 2C
+12V 3C
SOL_POW_OUT 4C
SRM2 5C
SRM3 6C
TRM1 7C
CAP_M2 8C
CAP_M3 9C
CYL_M1 10C
R_STAND_S2L 11C
F_LOAD_IN 12C
UNLOADING 13C
SV_MEC_DATA 14C
TAPE_START_L 15C
S_FG1_M 16C
RL_FG_GND 17C
SRH3+ 18C
SRH1- 19C
SRH_V+ 20C
TRH2- 21C
TRH1+ 22C
CTL_REC_CURR 23C
CYL_PF_GND 24C
CAP_FG2_M 25C
CAP_FG_VCC 26C
CAPH2- 27C
CAPH1+ 28C
CYLH_V- 29C
CYLH3- 30C
CYLH1+ 31C
S_TENSION 32C
BUS3[0-29]
MOTHER
P1002
K1KA96B00032
S_TENSION 1A
CYLH1+ 2A
CYLH3- 3A
CYLH_V- 4A
CAPH1+ 5A
CAPH2- 6A
CAP_FG_VCC 7A
CAP_FG2_M 8A
CYL_PF_GND 9A
CTL_REC_CURR 10A
TRH1+ 11A
TRH2- 12A
SRH_V+ 13A
SRH1- 14A
SRH3+ 15A
RL_FG_GND 16A
S_FG1_M 17A
TAPE_START_L 18A
SV_MEC_DATA 19A
UNLOADING 20A
F_LOAD_IN 21A
R_STAND_S2L 22A
CYL_M1 23A
CAP_M3 24A
CAP_M2 25A
TRM1 26A
SRM3 27A
SRM2 28A
SOL_POW_OUT 29A
+12V 30A
+3.3V 31A
GND 32A
P1002
K1KA96B00032
DEW_GND 1B
CYLH1- 2B
CYLH2+ 3B
CYLH_V+ 4B
CAPH_V- 5B
CAPH2+ 6B
CAPH3- 7B
CAP_FG1_M 8B
CYL_FG+ 9B
CTL_PRE 10B
TRH_V- 11B
TRH2+ 12B
TRH3- 13B
SRH1+ 14B
SRH2- 15B
RL_FG_V 16B
T_FG2_M 17B
TAPE_END_L 18B
SV_MEC_STB 19B
CLEANING_ON 20B
LOAD_F_OUT 21B
R_STAND_L2S 22B
CYL_M3 23B
CYL_M2 24B
CAP_M1 25B
TRM3 26B
TRM2 27B
SRM1 28B
SOL_POW_OUT 29B
MIC_1 30B
+5V 31B
SOL_GND 32B
P1002
K1KA96B00032
DEW_ON_H 1C
TENS_GND 2C
CYLH2- 3C
CYLH3+ 4C
CAPH_V+ 5C
CAPH1- 6C
CAPH3+ 7C
CAP_FG_GND 8C
CYL_PG+ 9C
CTL_GND 10C
TRH_V+ 11C
TRH1- 12C
TRH3+ 13C
SRH_V- 14C
SRH2+ 15C
SRH3- 16C
T_FG1_M 17C
S_FG2_M 18C
SV_MEC_CLK 19C
PINCH_ON_H 20C
PINCH_OFF_H 21C
TAPE_SENSOR_ON 22C
MIC_3 23C
M_STOPPER_ON_H 24C
M_STOPPER_OFF_H 25C
T_BRAKE_ON_H 26C
T_BRAKE_OFF_H 27C
S_BRAKE_ON_H 28C
S_BRAKE_OFF_H 29C
MIC_2 30C
-12V 31C
SOL_GND 32C

COMPONENT NAME	MECHA_IF2	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82240A	KR2E03 (1/1)	
	SCM133	


P1103
VJP2638
L
N
C1107
0.47(250V)
C1139
2200P
(CD)
C1109
2200P
(CD)
L1102
ELF21N020A
L1103
ELF21N020A
D1109
RBV606
C1123
ECQE2W225KC
2.2U
L1104
VLQ0820
C1115
PAT
C1118
PAT
(CD)
C1120
1000P
R1125
10(3W)
C1122
0.1
10K/J3
R1131
Q1102
TM1661S-L
WITH HEATSYNK
R1132
220/G
D1119
ERA15-08V5
D1105
ERA15-08V5
R1115
220/J6
R1116
220/J6
D1120
ERA15-08V5
D1106
ERA15-08V5
MAIN_VCC
22/G
R1155
C1133
C1134
470P(2KV)
470P(2KV)
WITH HEATSYNK
D1118
FML-G26S
C1130
470P(2KV)
C1131
470P(2KV)
2SK2953
Q1103
R1147
22/G
R1148
0.15(2W)
ERF2TKR15
C1135
450V150(MC)
D1114
SFPL-52PV
R1140
10(1/4W)
SFPL-52PV
D1115
R1141
22(1/4W)
IC1103
M51951BL
VCC
NC
GND
NC
OUT
R1167
150K(1/2W)
R1168
150K(1/2W)
R1169
150K(1/2W)
R1166
PAT/J3
C1141
PAT/UBN
C1140
0.1
C1138
50V10(XL)
R1165
22K/RE7
R1161
0/J3
AF_RESET_L
DC+
DC-
PFC_VCC
Inrush_Trigger
R1120
PAT/J6
Q1101
2SJ278-TR
R1123
68K(1/2W)
R1127
68K(1/2W)
R1129
68K(1/2W)
R1124
68K(1/2W)
R1128
68K(1/2W)
R1130
68K(1/2W)
D1113
SFPL-52PV
R1135
10(1/2W)
R1122
100K/J3
UN2112-TX
QR1101
R1149
PAT/J6
R1121
100K/J3
C1117
0.1
C1121
PAT/UN
R1133
12K/J6
R1117
470K(1/4W)
R1118
470K(1/4W)
IC1101
MC33262P
VCC
OUT
GND
ZCD
V_FB
COMP
MP
C_SNS
D1108
MA1070400L
D1110
MA701A-TX
D1111
MAZ32000ML
D1112
MAZ32000ML
C1124
50V120
R1137
0/J6
R1142
220K(1/2W)
R1146
4700(1/2W)
R1150
150K(1/2W)
R1151
150K(1/2W)
R1152
150K(1/2W)
R1143
220K(1/2W)
C1128
0.0022
R1144
150K(1/2W)
R1101
33K(3W)
R1102
33K(3W)
R1112
220K(1/2W)
R1113
220K(1/2W)
R1114
220K(1/2W)
IC1102
M51945BL
VCC
IN
GND
NC
OUT
R1103
27K/RE
D1101
MAZ32000ML
R1104
18K/RE
C1101
50V10
(XL)
R1107
220K/RE7
R1109
470K/J3
R1110
330K/RE7
D1102
MAZ32000ML
R1105
0/J6
R1108
100K/J3
D1107
MA142K-GTX
D1103
MAZ30680ML
D1104
MA142K-GTX
QR1103
UN2113-TX
C1111
0.01/UBV
C1114
0.47
R1119
10K/J3
C1116
1000P/UBV
C1119
0.68(V)
R1136
220/J6
C1126
3900P/UBV
R1138
PAT/J6
R1139
10K/J3
R1145
10K/J3
C1129
0.1
500/VR6
VR1102
R1154
100K/J6
R1153
2700/RE
C1132
4700P/UBV
D1116
MAZ30680ML
AF_S_Down_L
OHP_L
QR1105
UN2213-TX
C1110
0.01/UBV
QR1104
UN2213-TX
QR1102
UN2215-TX
C1125
1/UFN
R1134
15K/J3
C1127
0.1
D1117
MA142K-GTX
R1156
PAT/J6
A
B
C
D
E
F
G
H
I
J
1
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CAUTION

THE ⌜⌟ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

⚠ 警 告 ⚠の部品は、安全上重要な部品です。交換するときは、安全及び性能維持のため、必ず指定の部品をご使用ください。

⌜⌟ 内は充電部です。AC100Vが加わっていますので点検、修理のときは感電しないよう充分ご注意ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

REF. NO. 1000 SERIES

COMPONENT NAME	POWER1	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81221A	KR1E85 (1/2)	
	SCM134	

⚠ 警告 ⚠の部品は、安全上重要な部品です。
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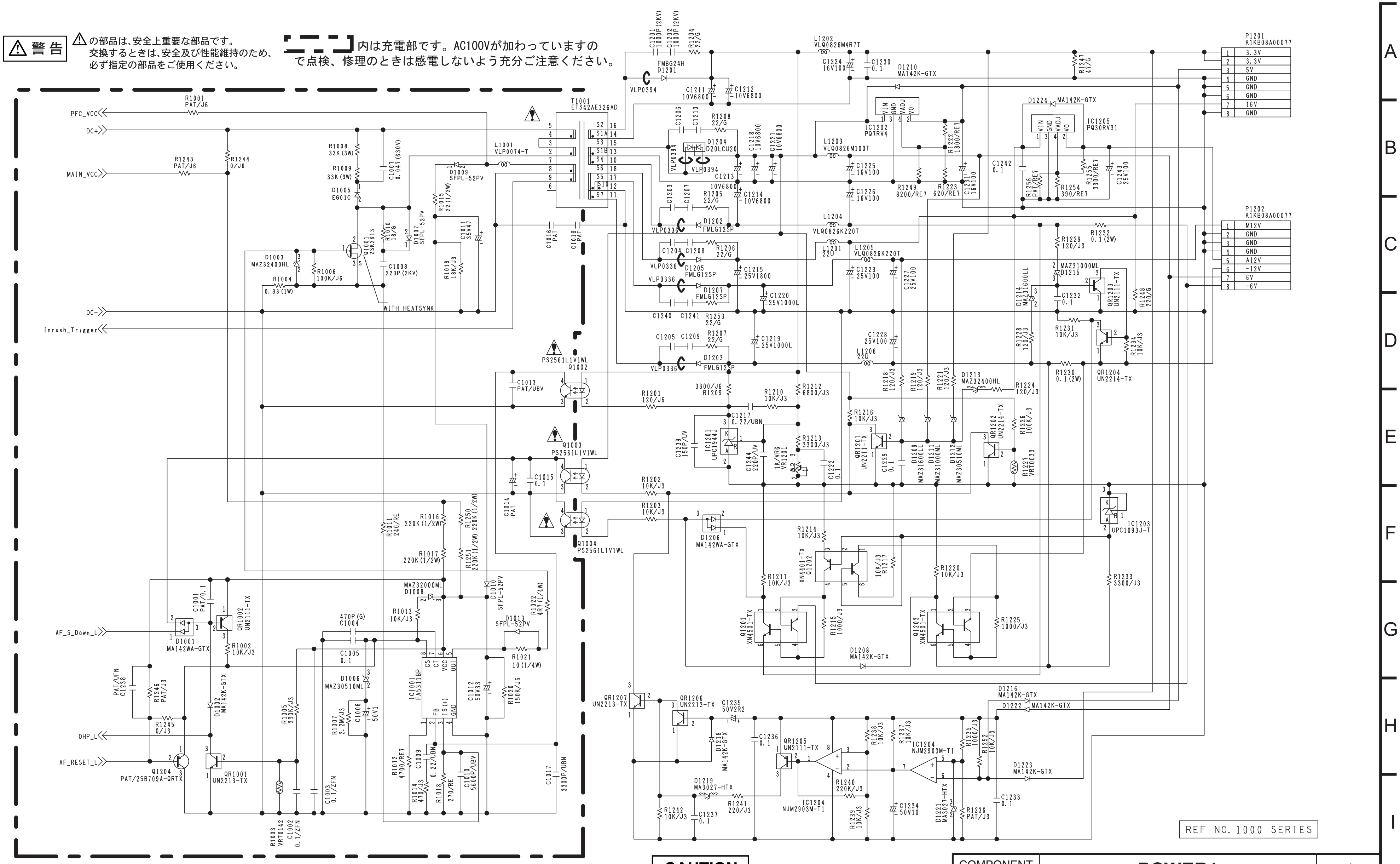
必ず指定の部品をご使用ください。

[- - -] 内は充電部です。AC100Vが加わっていますの
で点検、修理のときは感電しないよう充分ご注意ください。


A
B
C
D
E
F
G
H
I
PFC_VCC
DC+
MAIN_VCC
DC-
Inrush_Trigger
AF_S_Down_L
OHP_L
AF_RESET_L
T1001
ETS42AE326AD
R1001 PAT/J6
R1243 PAT/J6
R1244 0/J6
R1008 33K(3W)
R1009 33K(3W)
C1007 0.047(630V)
L1001 VLP0074-T
D1009 SFPL-52PV
D1005 EG01C
Q1001 2SK2613
R1010 18/G
D1007 SFPL-52PV
R1015 22(1/2W)
C1011 35V47
C1008 220P(2KV)
D1003 MAZ32400HL
R1006 100K/J6
R1004 0.33(1W)
R1019 18K/J3
WITH HEATSYNK
C1016 PAT
C1018 PAT
C1013 PAT/UBV
PS2561L1V1WL Q1002
Q1003 PS2561L1V1WL
C1015 0.1
C1014 PAT
Q1004 PS2561L1V1WL
R1011 240/RE
R1016 220K(1/2W)
R1250 220K(1/2W)
R1017 220K(1/2W)
R1251 220K(1/2W)
MAZ32000ML D1008
D1010 SFPL-52PV
R1022 4R7(1/4W)
R1013 10K/J3
D1013 SFPL-52PV
C1001 PAT/0.1
QR1002 UN2111-TX
D1001 MA142WA-GTX
R1002 10K/J3
470P(G) C1004
C1005 0.1
D1006 MAZ30510ML
IC1001 FA5311BP
R1021 10(1/4W)
C1012 50V33
R1020 150K/J6
C1238 PAT/UFN
R1246 PAT/J3
D1002 MA142K-GTX
R1005 330K/J3
R1007 2.2M/J3
C1006 50V1
R1245 0/J3
Q1204 PAT/2SB709A-QRTX
QR1001 UN2213-TX
R1012 4700/RE7
C1009 0.22/UBN
R1014 470/J3
R1018 270/RE
C1010 5600P/UBV
C1003 0.1/ZFN
C1017 3300P/UBN
R1003 VRT0142
C1002 0.1/ZFN
C1201 1000P(2KV)
C1202 1000P(2KV)
R1204 22/G
FMBG24H D1201
VLP0394
C1211 10V6800
C1212 10V6800
C1206
C1210
R1208 22/G
D1204 D20LCU20
C1218 10V6800
C1221 10V6800
C1213 10V6800
R1205 22/G
C1214 10V6800
C1203
C1207
D1202 FMLG12SP
VLP0336
C1204
C1208
R1206 22/G
D1205 FMLG12SP
C1215 25V1800
D1207 FMLG12SP
C1220 25V1000L
C1240 C1241 R1253 22/G
C1205 C1209 R1207 22/G
C1219 25V1000L
D1203 FMLG12SP
L1202 VLQ0826M4R7T
C1224 16V100
C1230 0.1
D1210 MA142K-GTX
R1247 47/G
IC1202 PQ7RV4
L1203 VLQ0826M100T
C1225 16V100
C1226 16V100
R1222 1800/RE7
R1249 8200/RE7
R1223 620/RE7
C1231 16V100
C1242 0.1
D1224 MA142K-GTX
IC1205 PQ30RV31
R1256 PAT/RE7
R1254 390/RE7
R1255 3300/RE7
C1243 25V100
L1204 VLQ0826K220T
L1201 220
L1205 VLQ0826K220T
C1223 25V100
C1227 25V100
C1228 25V100
L1206 220
R1229 120/J3
R1232 0.1(2W)
MAZ31000ML D1215
D1214 MAZ31600LL
C1232 0.1
QR1203 UN2111-TX
R1248 220/G
R1231 10K/J3
R1228 120/J3
R1234 10K/J3
R1230 0.1(2W)
QR1204 UN2214-TX
P1201 K1KB08A00077
1 3.3V
2 3.3V
3 5V
4 GND
5 GND
6 GND
7 16V
8 GND
P1202 K1KB08A00077
1 M12V
2 GND
3 GND
4 GND
5 A12V
6 -12V
7 6V
8 -6V
3300/J6 R1209
R1212 6800/J3
R1201 120/J6
R1210 10K/J3
C1217 0.22/UBN
R1218 120/J3
R1219 120/J3
R1221 120/J3
D1213 MAZ32400HL
R1224 120/J3
R1216 10K/J3
QR1202 UN2214-TX
R1226 100K/J3
C1239 15P/UV
IC1201 UPC1944U
C1244 2200P/UV
1K/VR6 VR1201
R1213 3300/J3
C1222 0.1
QR1201 UN2211-TX
C1229 0.1
D1209 MAZ31600LL
D1211 MAZ31000ML
D1212 MAZ30510ML
R1227 VRT0033
R1202 10K/J3
R1203 10K/J3
D1206 MA142WA-GTX
IC1203 UPC1093J-T
R1214 10K/J3
XN4401-TX Q1202
R1217 10K/J3
R1220 10K/J3
R1211 10K/J3
R1233 3300/J3
Q1201 XN4501-TX
R1215 1000/J3
Q1203 XN4501-TX
R1225 1000/J3
D1208 MA142K-GTX
D1216 MA142K-GTX
D1222 MA142K-GTX
QR1207 UN2213-TX
QR1206 UN2213-TX
C1235 50V2R2
C1236 0.1
D1218 MA142K-GTX
QR1205 UN2111-TX
R1238 10K/J3
R1237 10K/J3
IC1204 NJM2903M-T1
R1235 1000/J3
R1252 10K/J3
D1223 MA142K-GTX
D1219 MA3027-HTX
R1240 220K/J3
R1241 220/J3
R1242 10K/J3
C1237 0.1
R1239 10K/J3
C1234 50V10
D1221 MA3027-HTX
R1236 PAT/J3
C1233 0.1
REF NO.1000 SERIES

IMPORTANT SAFETY NOTICE:
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WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

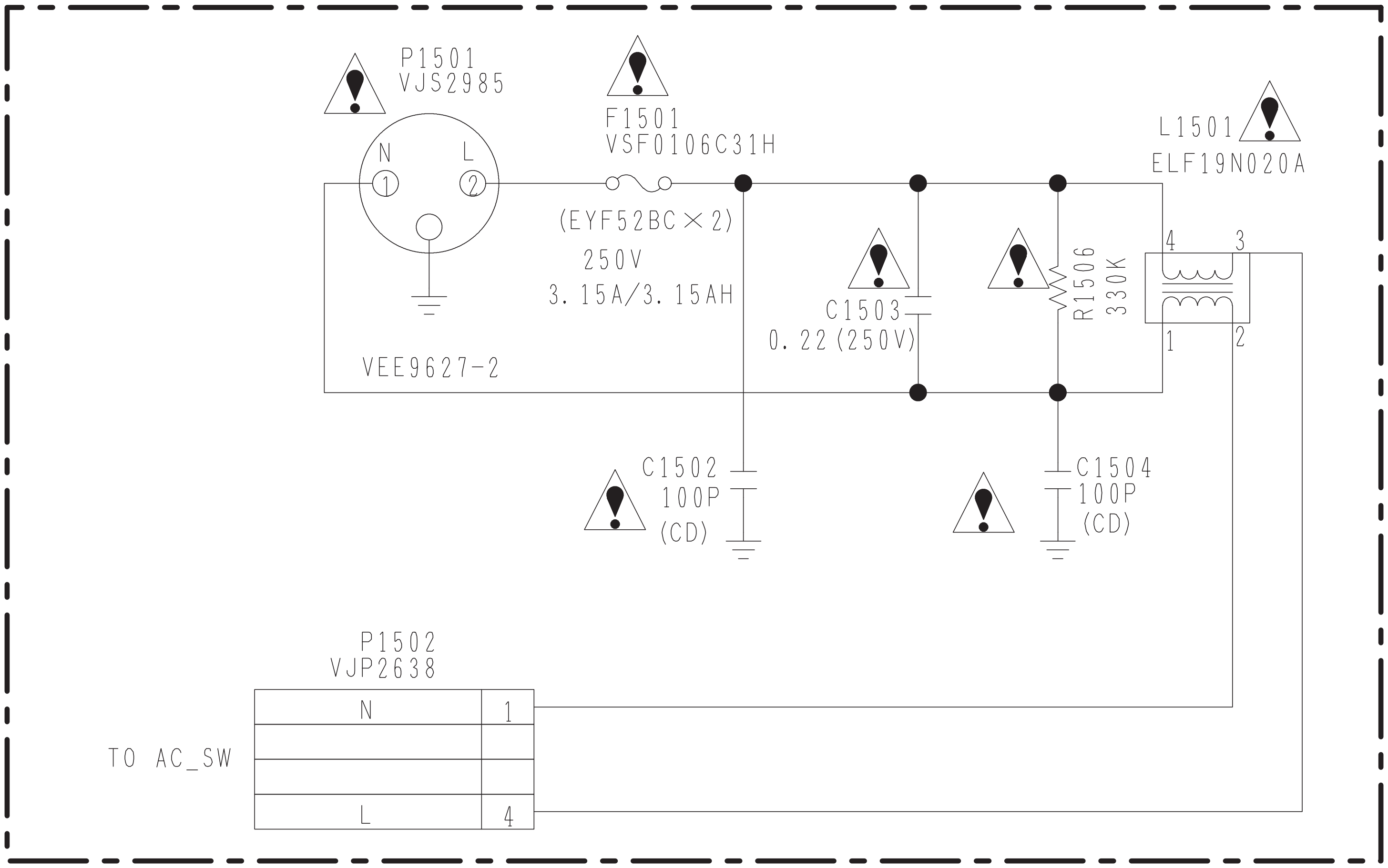
CAUTION

THE [- - -] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	**POWER1**	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP81221A		KR1E85 (2/2)
		SCM135

J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


P1501
VJS2985
N
L
①
②
F1501
VSF0106C31H
(EYF52BC×2)
250V
3.15A/3.15AH
VEE9627-2
C1503
0.22(250V)
R1506
330K
L1501
ELF19N020A
4
3
1
2
C1502
100P
(CD)
C1504
100P
(CD)
P1502
VJP2638
N
1
L
4
TO AC_SW

⚠ 警 告

⚠の部品は、安全上重要な部品です。
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⬚ 内は充電部です。AC100Vが加わっていますので点検、修理のときは感電しないよう充分ご注意ください。

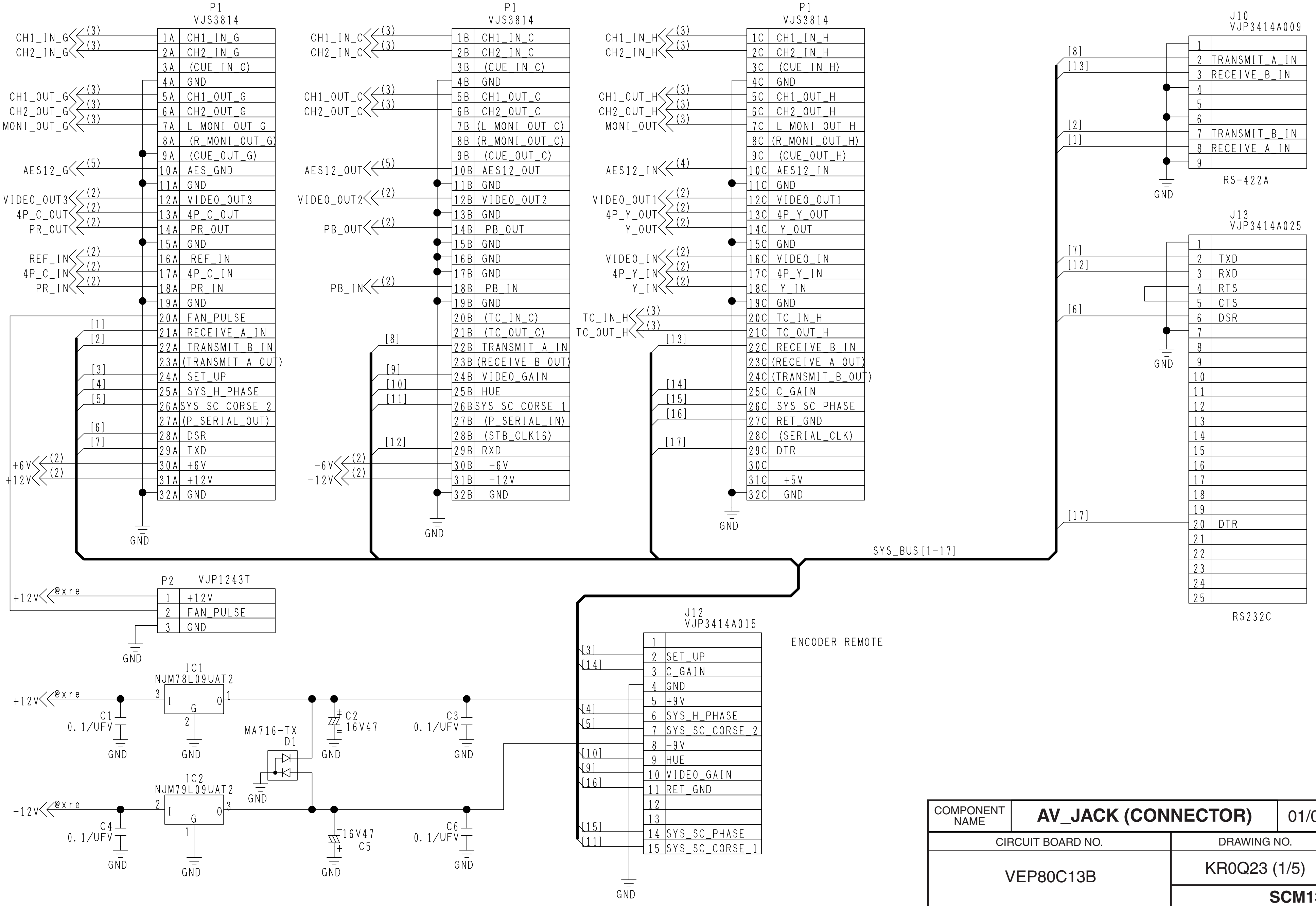
REF. NO. 1500 SERIES

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE ⬚ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	**POWER2**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP81222A	KR1E86 (1/1) **SCM136**	


P1
VJS3814
CH1_IN_G (3) 1A CH1_IN_G
CH2_IN_G (3) 2A CH2_IN_G
3A (CUE_IN_G)
4A GND
CH1_OUT_G (3) 5A CH1_OUT_G
CH2_OUT_G (3) 6A CH2_OUT_G
MONI_OUT_G (3) 7A L_MONI_OUT_G
8A (R_MONI_OUT_G)
9A (CUE_OUT_G)
AES12_G (5) 10A AES_GND
11A GND
VIDEO_OUT3 (2) 12A VIDEO_OUT3
4P_C_OUT (2) 13A 4P_C_OUT
PR_OUT (2) 14A PR_OUT
15A GND
REF_IN (2) 16A REF_IN
4P_C_IN (2) 17A 4P_C_IN
PR_IN (2) 18A PR_IN
19A GND
20A FAN_PULSE
[1] 21A RECEIVE_A_IN
[2] 22A TRANSMIT_B_IN
23A (TRANSMIT_A_OUT)
[3] 24A SET_UP
[4] 25A SYS_H_PHASE
[5] 26A SYS_SC_CORSE_2
27A (P_SERIAL_OUT)
[6] 28A DSR
[7] 29A TXD
+6V (2) 30A +6V
+12V (2) 31A +12V
32A GND
GND
P1
VJS3814
CH1_IN_C (3) 1B CH1_IN_C
CH2_IN_C (3) 2B CH2_IN_C
3B (CUE_IN_C)
4B GND
CH1_OUT_C (3) 5B CH1_OUT_C
CH2_OUT_C (3) 6B CH2_OUT_C
7B (L_MONI_OUT_C)
8B (R_MONI_OUT_C)
9B (CUE_OUT_C)
AES12_OUT (5) 10B AES12_OUT
11B GND
VIDEO_OUT2 (2) 12B VIDEO_OUT2
13B GND
PB_OUT (2) 14B PB_OUT
15B GND
16B GND
17B GND
PB_IN (2) 18B PB_IN
19B GND
20B (TC_IN_C)
21B (TC_OUT_C)
[8] 22B TRANSMIT_A_IN
23B (RECEIVE_B_OUT)
[9] 24B VIDEO_GAIN
[10] 25B HUE
[11] 26B SYS_SC_CORSE_1
27B (P_SERIAL_IN)
28B (STB_CLK16)
[12] 29B RXD
-6V (2) 30B -6V
-12V (2) 31B -12V
32B GND
GND
P1
VJS3814
CH1_IN_H (3) 1C CH1_IN_H
CH2_IN_H (3) 2C CH2_IN_H
3C (CUE_IN_H)
4C GND
CH1_OUT_H (3) 5C CH1_OUT_H
CH2_OUT_H (3) 6C CH2_OUT_H
MONI_OUT (3) 7C L_MONI_OUT_H
8C (R_MONI_OUT_H)
9C (CUE_OUT_H)
AES12_IN (4) 10C AES12_IN
11C GND
VIDEO_OUT1 (2) 12C VIDEO_OUT1
4P_Y_OUT (2) 13C 4P_Y_OUT
Y_OUT (2) 14C Y_OUT
15C GND
VIDEO_IN (2) 16C VIDEO_IN
4P_Y_IN (2) 17C 4P_Y_IN
Y_IN (2) 18C Y_IN
19C GND
TC_IN_H (3) 20C TC_IN_H
TC_OUT_H (3) 21C TC_OUT_H
[13] 22C RECEIVE_B_IN
23C (RECEIVE_A_OUT)
24C (TRANSMIT_B_OUT)
[14] 25C C_GAIN
[15] 26C SYS_SC_PHASE
[16] 27C RET_GND
28C (SERIAL_CLK)
[17] 29C DTR
30C
31C +5V
32C GND
GND
J10
VJP3414A009
1
[8] 2 TRANSMIT_A_IN
[13] 3 RECEIVE_B_IN
4
5
6
[2] 7 TRANSMIT_B_IN
[1] 8 RECEIVE_A_IN
9
GND
RS-422A
J13
VJP3414A025
1
[7] 2 TXD
[12] 3 RXD
4 RTS
5 CTS
[6] 6 DSR
7
8
9
10
11
12
13
14
15
16
17
18
19
[17] 20 DTR
21
22
23
24
25
GND
RS232C
SYS_BUS[1-17]
P2 VJP1243T
+12V @xre 1 +12V
2 FAN_PULSE
3 GND
GND
J12
VJP3414A015
ENCODER REMOTE
1
[3] 2 SET_UP
[14] 3 C_GAIN
4 GND
5 +9V
[4] 6 SYS_H_PHASE
[5] 7 SYS_SC_CORSE_2
8 -9V
[10] 9 HUE
[9] 10 VIDEO_GAIN
[16] 11 RET_GND
12
13
[15] 14 SYS_SC_PHASE
[11] 15 SYS_SC_CORSE_1
GND
IC1
NJM78L09UAT2
+12V @xre
3 I O 1
G
2
C1 0.1/UFV
GND
C2 16V47
C3 0.1/UFV
MA716-TX
D1
IC2
NJM79L09UAT2
-12V @xre
2 I O 3
G
1
C4 0.1/UFV
16V47 C5
C6 0.1/UFV
GND
A
B
C
D
E
F
G
H
I
J
1
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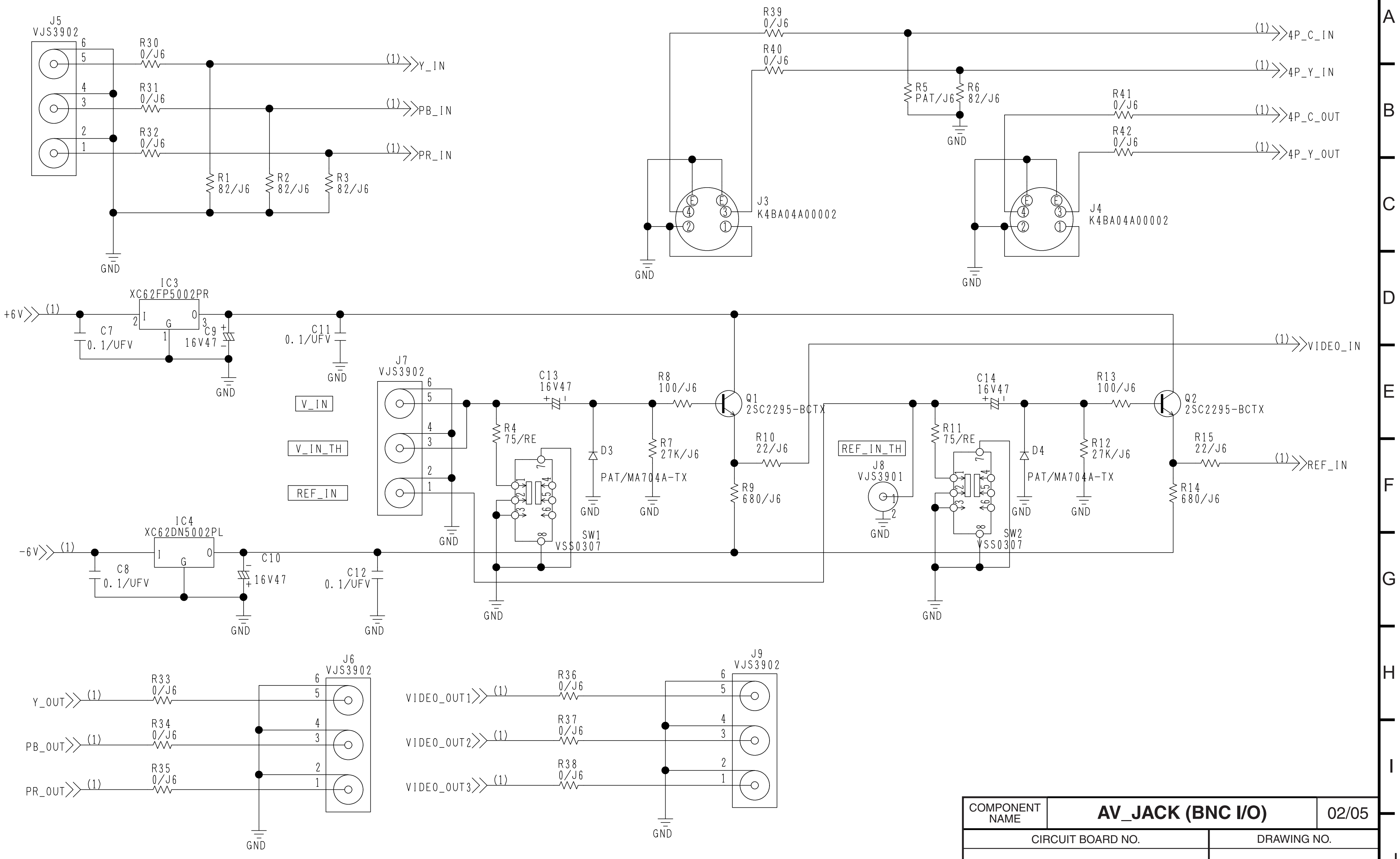
COMPONENT NAME	AV_JACK (CONNECTOR)	01/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C13B	KR0Q23 (1/5)	
	SCM137	


J5
VJS3902
R30
0/J6
R31
0/J6
R32
0/J6
(1)
Y_IN
PB_IN
PR_IN
R1
82/J6
R2
82/J6
R3
82/J6
GND
R39
0/J6
R40
0/J6
4P_C_IN
4P_Y_IN
R5
PAT/J6
R6
82/J6
R41
0/J6
R42
0/J6
4P_C_OUT
4P_Y_OUT
J3
K4BA04A00002
J4
K4BA04A00002
IC3
XC62FP5002PR
+6V
C7
0.1/UFV
C9
16V47
C11
0.1/UFV
VIDEO_IN
V_IN
V_IN_TH
REF_IN
J7
VJS3902
C13
16V47
R8
100/J6
Q1
2SC2295-BCTX
R4
75/RE
D3
PAT/MA704A-TX
R7
27K/J6
R10
22/J6
R9
680/J6
SW1
VSS0307
REF_IN_TH
J8
VJS3901
C14
16V47
R13
100/J6
Q2
2SC2295-BCTX
R11
75/RE
D4
PAT/MA704A-TX
R12
27K/J6
R15
22/J6
REF_IN
R14
680/J6
SW2
VSS0307
IC4
XC62DN5002PL
-6V
C8
0.1/UFV
C10
16V47
C12
0.1/UFV
J6
VJS3902
Y_OUT
PB_OUT
PR_OUT
R33
0/J6
R34
0/J6
R35
0/J6
J9
VJS3902
VIDEO_OUT1
VIDEO_OUT2
VIDEO_OUT3
R36
0/J6
R37
0/J6
R38
0/J6
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
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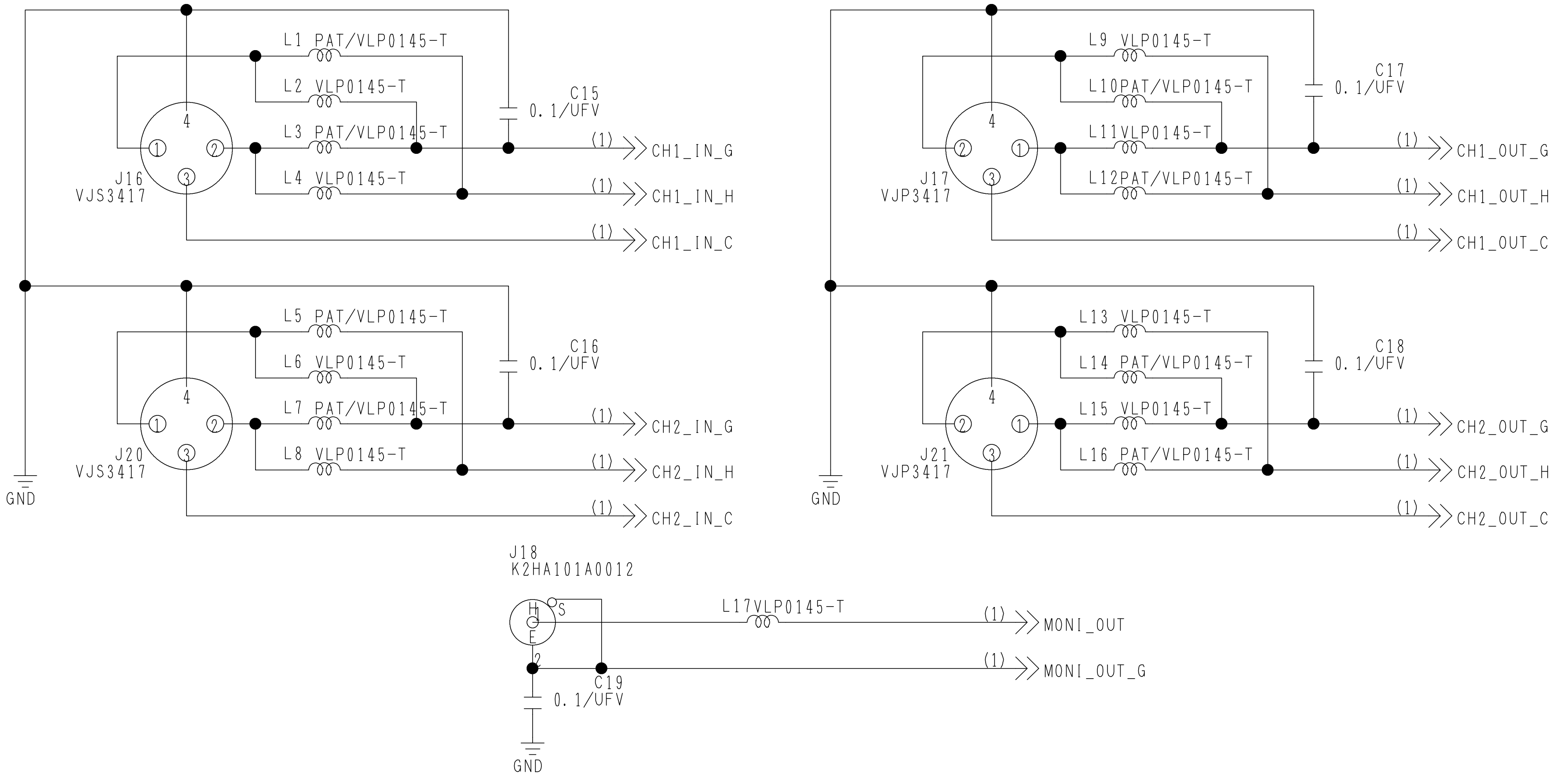
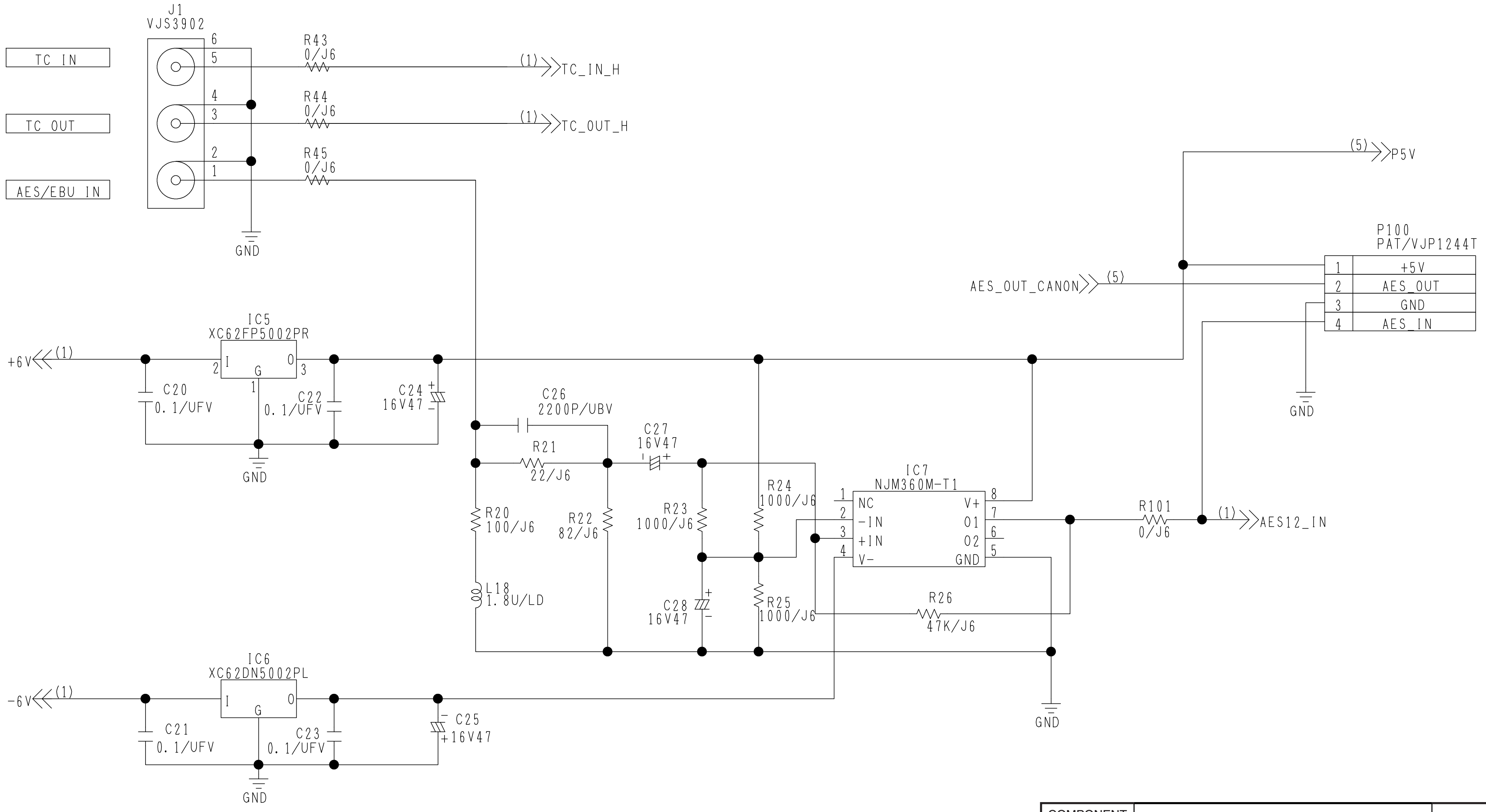
COMPONENT NAME	AV_JACK (BNC I/O)	02/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C13B	KR0Q23 (2/5)	
	SCM138	

For OVER SEAS


L1 PAT/VLP0145-T
L2 VLP0145-T
L3 PAT/VLP0145-T
L4 VLP0145-T
C15
0.1/UFV
J16
VJS3417
(1) CH1_IN_G
(1) CH1_IN_H
(1) CH1_IN_C
L5 PAT/VLP0145-T
L6 VLP0145-T
L7 PAT/VLP0145-T
L8 VLP0145-T
C16
0.1/UFV
J20
VJS3417
(1) CH2_IN_G
(1) CH2_IN_H
(1) CH2_IN_C
GND
L9 VLP0145-T
L10PAT/VLP0145-T
L11VLP0145-T
L12PAT/VLP0145-T
C17
0.1/UFV
J17
VJP3417
(1) CH1_OUT_G
(1) CH1_OUT_H
(1) CH1_OUT_C
L13 VLP0145-T
L14 PAT/VLP0145-T
L15 VLP0145-T
L16 PAT/VLP0145-T
C18
0.1/UFV
J21
VJP3417
(1) CH2_OUT_G
(1) CH2_OUT_H
(1) CH2_OUT_C
GND
J18
K2HA101A0012
H
S
E
2
L17VLP0145-T
(1) MONI_OUT
(1) MONI_OUT_G
C19
0.1/UFV
GND

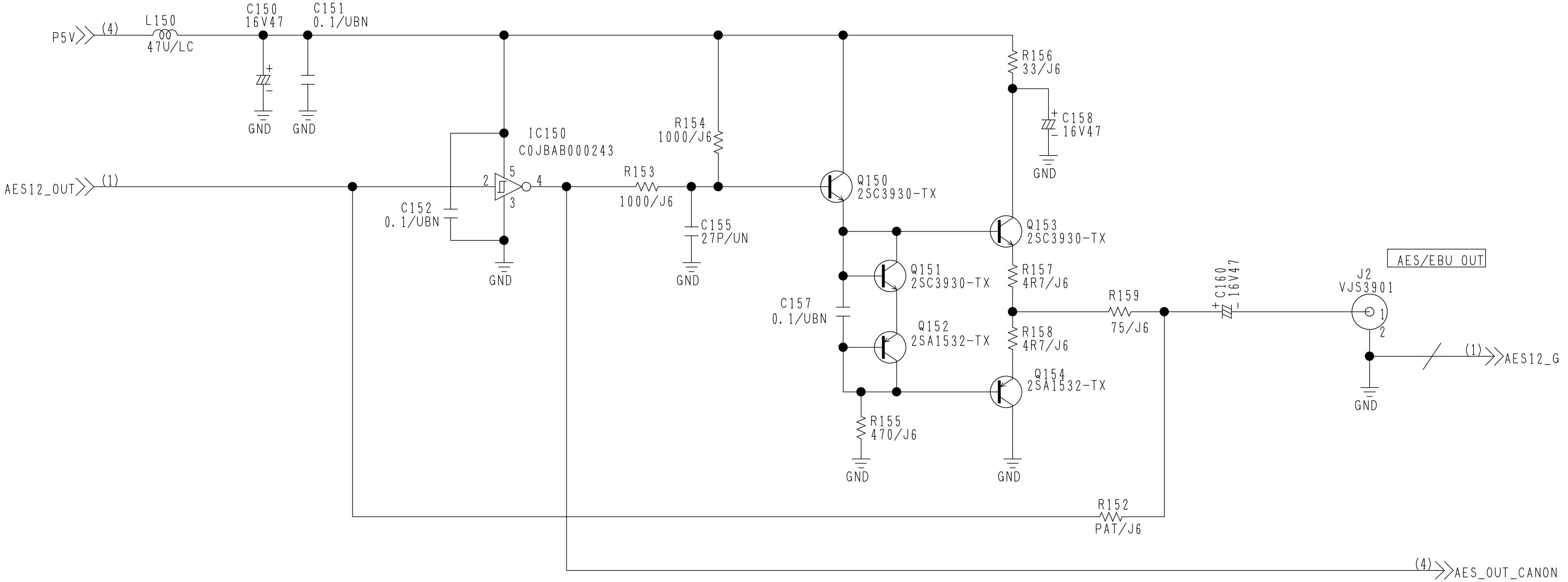
		J16	J20	L1	L2	L3	L4	L5	L6	L7	L8
INPUT	For OVER SEAS	VJS3417	VJS3417	–	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145
	For JAPAN	VJP3417	VJP3417	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145	–
OUTPUT		J17	J21	L9	L10	L11	L12	L13	L14	L15	L16
	For OVER SEAS	VJP3417	VJP3417	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145	–
	For JAPAN	VJS3417	VJS3417	–	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145

COMPONENT NAME	AV_JACK (AUDIO I/O)	03/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C13B	KR0Q23 (3/5)	
	SCM139	

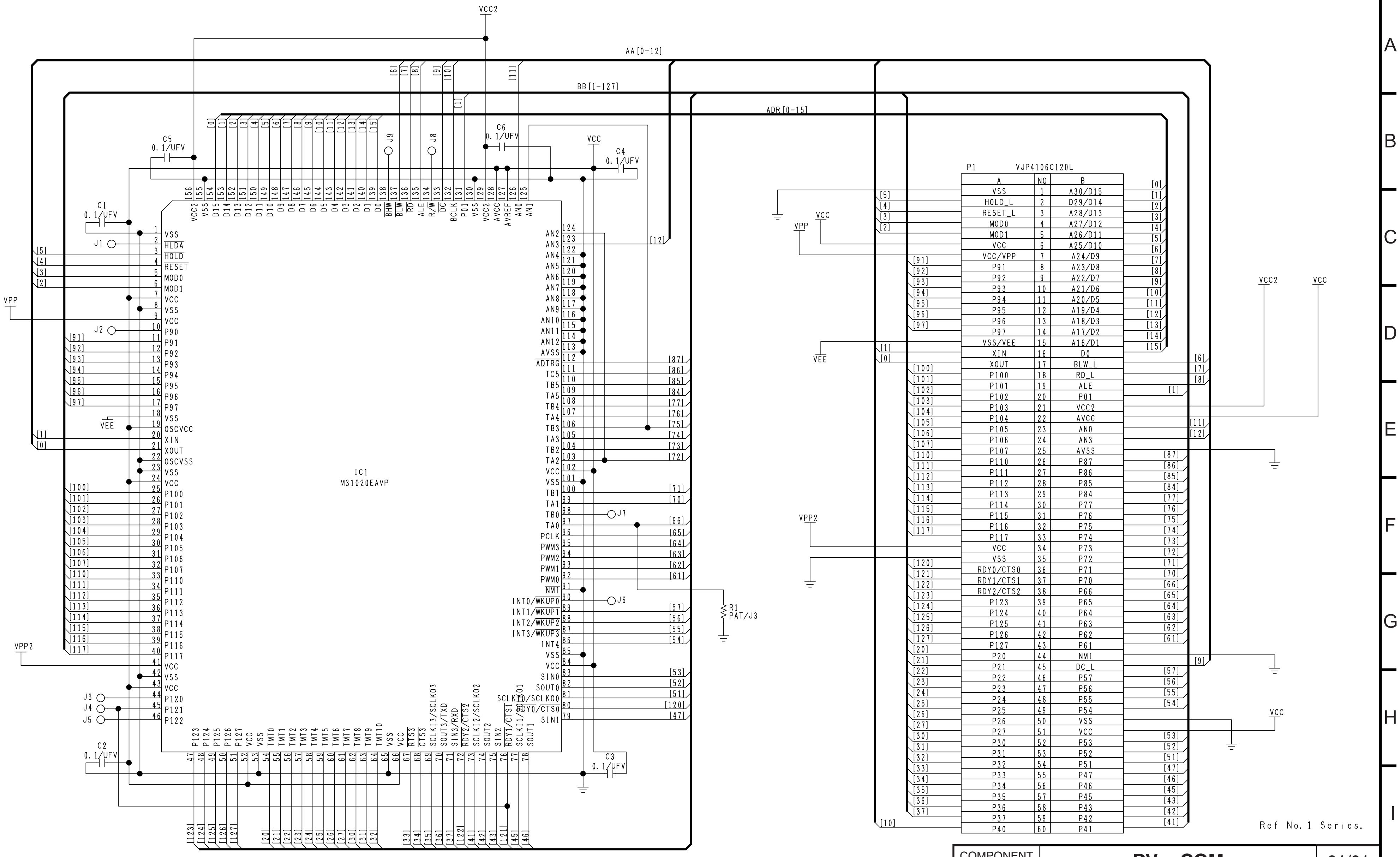

TC IN
TC OUT
AES/EBU IN
J1
VJS3902
6
5
4
3
2
1
R43
0/J6
R44
0/J6
R45
0/J6
(1)
TC_IN_H
(1)
TC_OUT_H
GND
(5)
P5V
P100
PAT/VJP1244T
1 +5V
2 AES_OUT
3 GND
4 AES_IN
AES_OUT_CANON
(5)
GND
IC5
XC62FP5002PR
+6V
(1)
I
G
O
2
1
3
C20
0.1/UFV
C22
0.1/UFV
C24
16V47
GND
C26
2200P/UBV
R21
22/J6
C27
16V47
R20
100/J6
R22
82/J6
R23
1000/J6
R24
1000/J6
IC7
NJM360M-T1
1 NC
2 -IN
3 +IN
4 V-
8 V+
7 O1
6 O2
5 GND
R101
0/J6
(1)
AES12_IN
L18
1.8U/LD
C28
16V47
R25
1000/J6
R26
47K/J6
GND
IC6
XC62DN5002PL
-6V
(1)
I
G
O
C21
0.1/UFV
C23
0.1/UFV
C25
16V47
GND

COMPONENT NAME	AV_JACK (AES I/O)	04/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C13B	KR0Q23 (4/5)	
	SCM140	

A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15


P5V
(4)
L150
47U/LC
C150
16V47
C151
0.1/UBN
GND
GND
IC150
C0JBAB000243
AES12_OUT
(1)
C152
0.1/UBN
2
5
4
3
GND
R153
1000/J6
R154
1000/J6
C155
27P/UN
GND
Q150
2SC3930-TX
Q151
2SC3930-TX
Q152
2SA1532-TX
Q153
2SC3930-TX
Q154
2SA1532-TX
C157
0.1/UBN
R155
470/J6
GND
GND
R156
33/J6
C158
16V47
GND
R157
4R7/J6
R158
4R7/J6
R159
75/J6
C160
16V47
AES/EBU OUT
J2
VJS3901
1
2
(1)
AES12_G
GND
R152
PAT/J6
(4)
AES_OUT_CANON

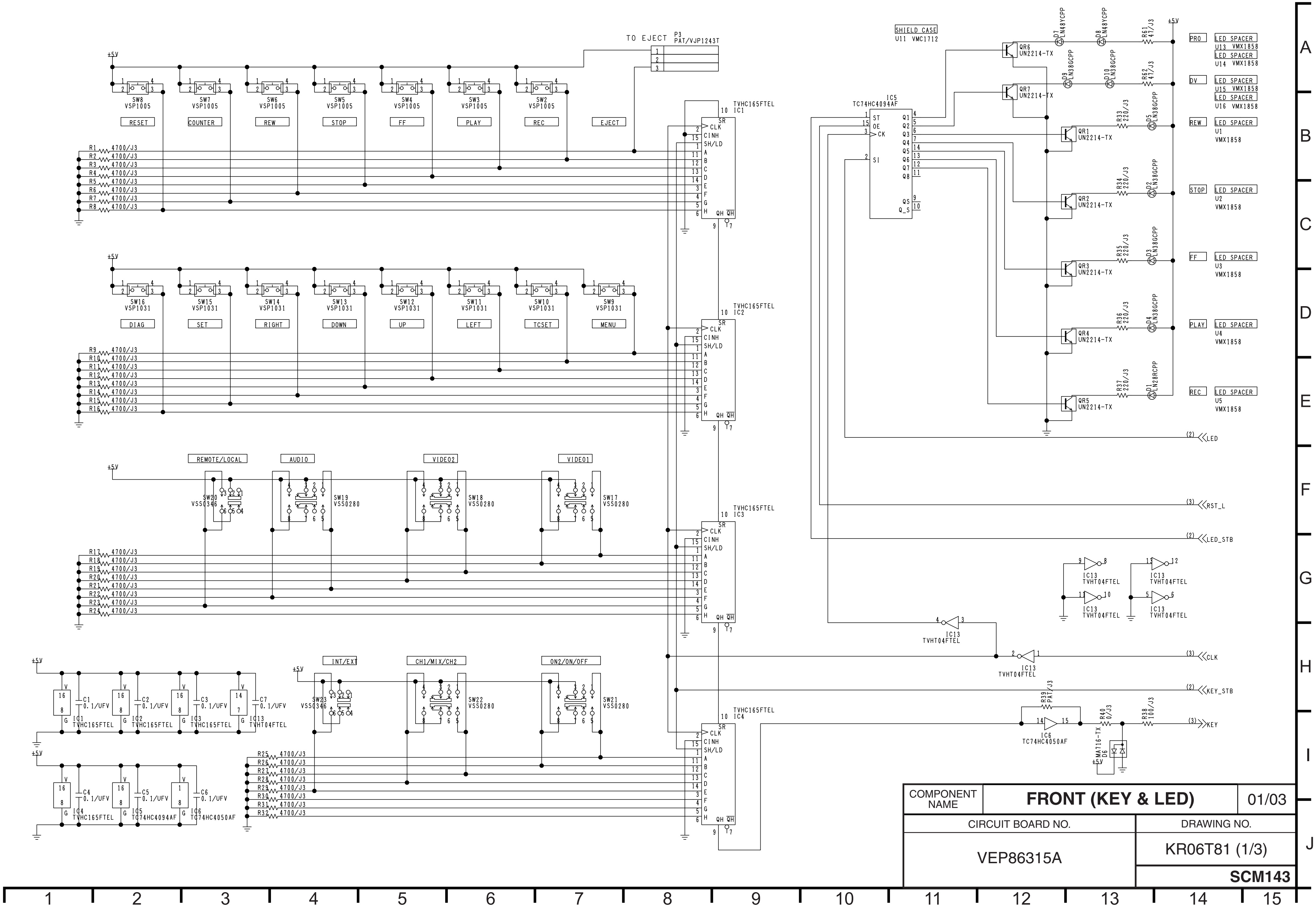
COMPONENT NAME	**AV_JACK (AES OUT)**	05/05
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C13B	KR0Q23 (5/5)	
	SCM141	


VCC2
AA[0-12]
BB[1-127]
ADR[0-15]
IC1
M31020EAVP
C1 0.1/UFV
C2 0.1/UFV
C3 0.1/UFV
C4 0.1/UFV
C5 0.1/UFV
C6 0.1/UFV
R1 PAT/J3
J1
J2
J3
J4
J5
J6
J7
J8
J9
VPP
VPP2
VEE
VCC
P1 VJP4106C120L
VSS
HLDA
HOLD
RESET
MOD0
MOD1
OSCVCC
XIN
XOUT
OSCVSS
INT0/WKUP0
INT1/WKUP1
INT2/WKUP2
INT3/WKUP3
INT4
NMI
SIN0
SOUT0
SCLKI0/SCLKO0
RDY0/CTS0
SIN1
ADTRG
AVSS
AVCC
AVREF
BCLK
ALE
R/W
BHW
BLW
RD
Ref No.1 Series.

P1 VJP4106C120L

A	NO	B
VSS	1	A30/D15
HOLD_L	2	D29/D14
RESET_L	3	A28/D13
MOD0	4	A27/D12
MOD1	5	A26/D11
VCC	6	A25/D10
VCC/VPP	7	A24/D9
P91	8	A23/D8
P92	9	A22/D7
P93	10	A21/D6
P94	11	A20/D5
P95	12	A19/D4
P96	13	A18/D3
P97	14	A17/D2
VSS/VEE	15	A16/D1
XIN	16	D0
XOUT	17	BLW_L
P100	18	RD_L
P101	19	ALE
P102	20	P01
P103	21	VCC2
P104	22	AVCC
P105	23	AN0
P106	24	AN3
P107	25	AVSS
P110	26	P87
P111	27	P86
P112	28	P85
P113	29	P84
P114	30	P77
P115	31	P76
P116	32	P75
P117	33	P74
VCC	34	P73
VSS	35	P72
RDY0/CTS0	36	P71
RDY1/CTS1	37	P70
RDY2/CTS2	38	P66
P123	39	P65
P124	40	P64
P125	41	P63
P126	42	P62
P127	43	P61
P20	44	NMI
P21	45	DC_L
P22	46	P57
P23	47	P56
P24	48	P55
P25	49	P54
P26	50	VSS
P27	51	VCC
P30	52	P53
P31	53	P52
P32	54	P51
P33	55	P47
P34	56	P46
P35	57	P45
P36	58	P43
P37	59	P42
P40	60	P41

COMPONENT NAME	DV u COM	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83560A	KR30103 (1/1)	
	SCM142	


TO EJECT
P3
PAT/VJP1243T
SHIELD CASE
U11 VMC1712
+5V
SW8 VSP1005
RESET
SW7 VSP1005
COUNTER
SW6 VSP1005
REW
SW5 VSP1005
STOP
SW4 VSP1005
FF
SW3 VSP1005
PLAY
SW2 VSP1005
REC
EJECT
SW16 VSP1031
DIAG
SW15 VSP1031
SET
SW14 VSP1031
RIGHT
SW13 VSP1031
DOWN
SW12 VSP1031
UP
SW11 VSP1031
LEFT
SW10 VSP1031
TCSET
SW9 VSP1031
MENU
REMOTE/LOCAL
SW20 VSS0346
AUDIO
SW19 VSS0280
VIDEO2
SW18 VSS0280
VIDEO1
SW17 VSS0280
INT/EXT
SW23 VSS0346
CH1/MIX/CH2
SW22 VSS0280
ON2/ON/OFF
SW21 VSS0280
R1–R32 4700/J3
TVHC165FTEL IC1
TVHC165FTEL IC2
TVHC165FTEL IC3
TVHC165FTEL IC4
SR
CLK
CINH
SH/LD
A
B
C
D
E
F
G
H
QH
IC5
TC74HC4094AF
ST
OE
CK
SI
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
QS
Q_S
QR6 UN2214-TX
QR7 UN2214-TX
QR1 UN2214-TX
QR2 UN2214-TX
QR3 UN2214-TX
QR4 UN2214-TX
QR5 UN2214-TX
D7 LN48YCPP
D8 LN48YCPP
D9 LN38GCPP
D10 LN38GCPP
D5 LN38GCPP
D2 LN38GCPP
D3 LN38GCPP
D4 LN38GCPP
D1 LN28RCPP
R61 47/J3
R62 47/J3
R33 220/J3
R34 220/J3
R35 220/J3
R36 220/J3
R37 220/J3
PRO
DV
REW
STOP
FF
PLAY
REC
LED SPACER U13 VMX1858
LED SPACER U14 VMX1858
LED SPACER U15 VMX1858
LED SPACER U16 VMX1858
LED SPACER U1 VMX1858
LED SPACER U2 VMX1858
LED SPACER U3 VMX1858
LED SPACER U4 VMX1858
LED SPACER U5 VMX1858
(2) LED
(3) RST_L
(2) LED_STB
(3) CLK
(2) KEY_STB
(3) KEY
IC13 TVHT04FTEL
IC6 TC74HC4050AF
R39 PAT/J3
R40 0/J3
R38 100/J3
D6 MA716-TX
C1 0.1/UFV
C2 0.1/UFV
C3 0.1/UFV
C7 0.1/UFV
C4 0.1/UFV
C5 0.1/UFV
C6 0.1/UFV
IC1 TVHC165FTEL
IC2 TVHC165FTEL
IC3 TVHC165FTEL
IC13 TVHT04FTEL
IC4 TVHC165FTEL
IC5 TC74HC4094AF
IC6 TC74HC4050AF
A
B
C
D
E
F
G
H
I
J
1
2
3
4
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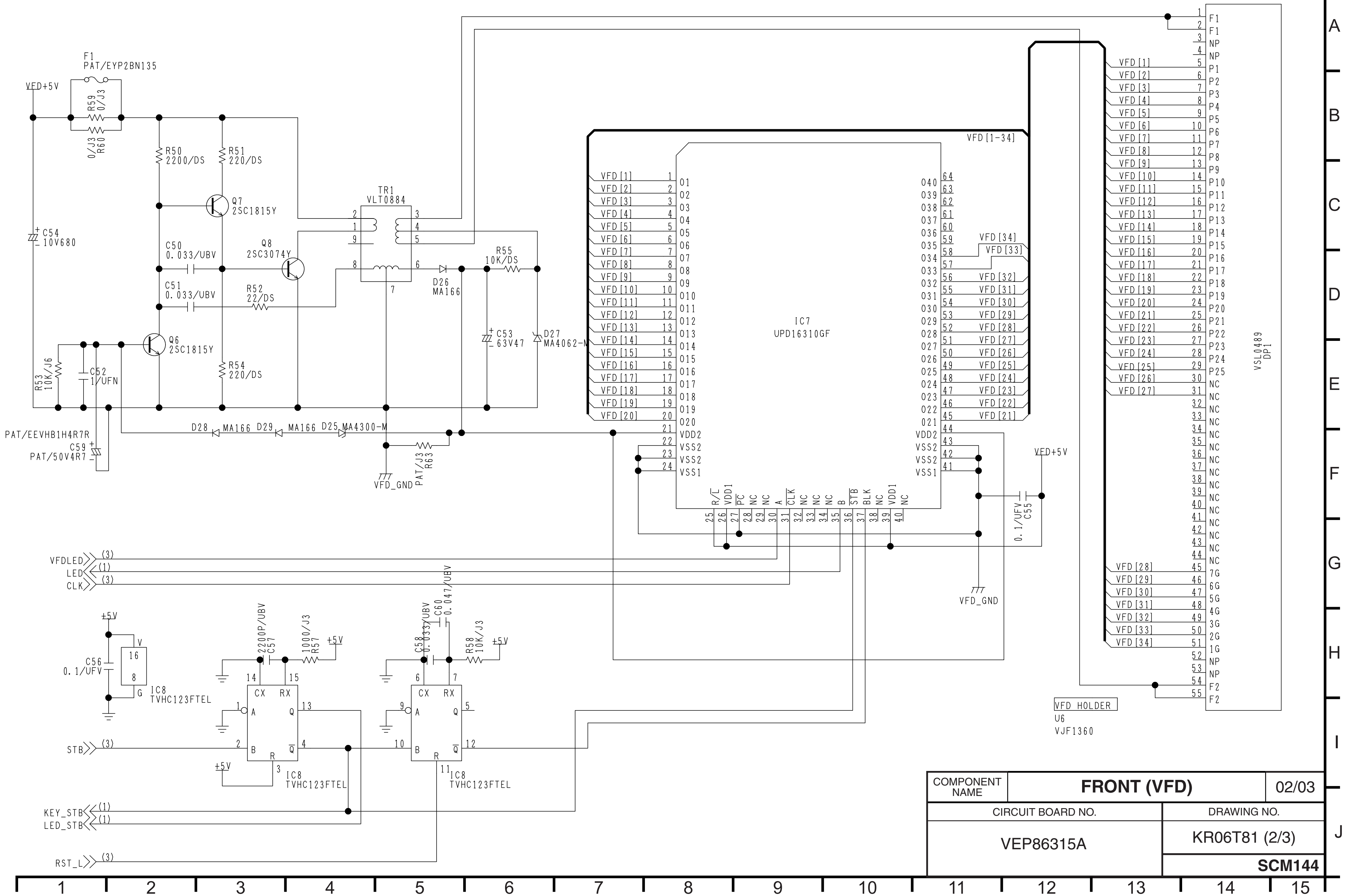
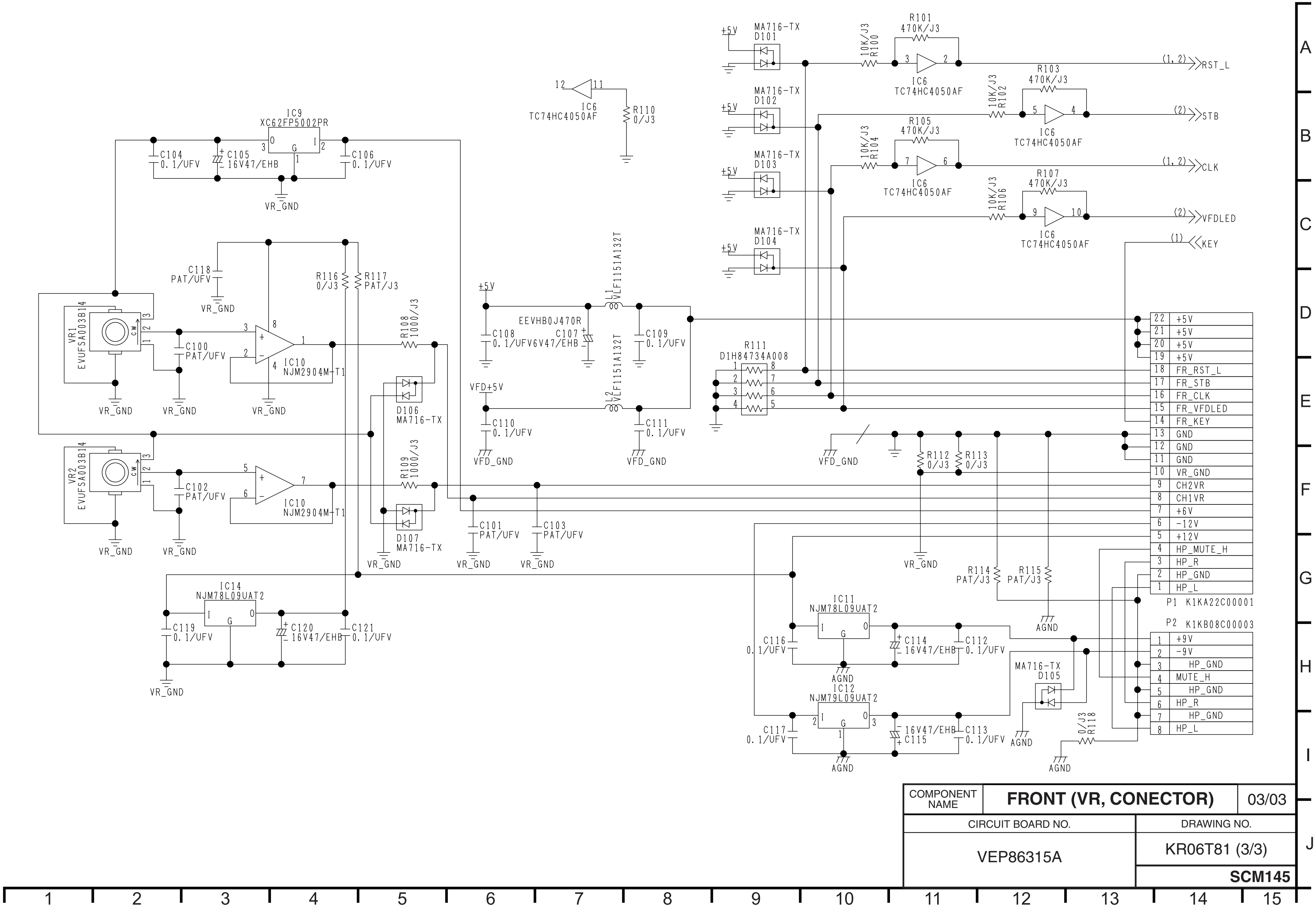
15

COMPONENT NAME	FRONT (KEY & LED)	01/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86315A	KR06T81 (1/3)	
	SCM143	

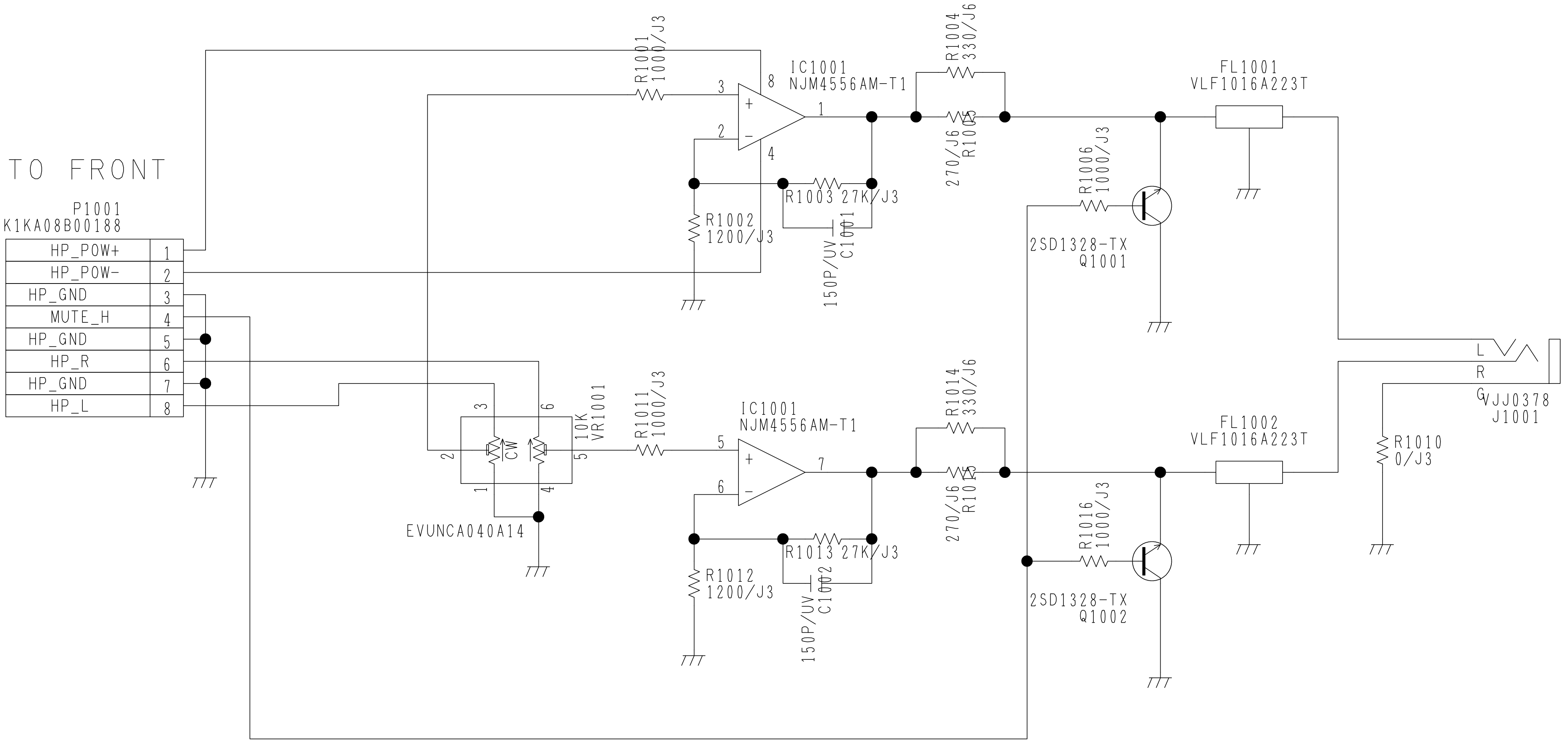

F1
PAT/EYP2BN135
VFD+5V
R59 0/J3
R60 0/J3
R50 2200/DS
R51 220/DS
Q7 2SC1815Y
C54 10V680
C50 0.033/UBV
Q8 2SC3074Y
TR1 VLT0884
C51 0.033/UBV
R52 22/DS
D26 MA166
R55 10K/DS
C53 63V47
D27 MA4062-M
Q6 2SC1815Y
R53 10K/J6
C52 1/UFN
R54 220/DS
PAT/EEVHB1H4R7R
C59 PAT/50V4R7
D28 MA166
D29 MA166
D25 MA4300-M
R63 PAT/J3
VFD_GND
VFD[1-34]
IC7
UPD16310GF
VDD2
VSS2
VSS1
R/L
VDD1
PC
NC
A
CLK
B
STB
BLK
VFD+5V
C55 0.1/UFV
VFDLED (3)
LED (1)
CLK (3)
+5V
C56 0.1/UFV
IC8 TVHC123FTEL
2200P/UBV C57
1000/J3 R57
C58 0.033/UBV
C60 0.047/UBV
R58 10K/J3
CX
RX
STB (3)
KEY_STB (1)
LED_STB (1)
RST_L (3)
VFD HOLDER
U6
VJF1360
VSL0489
DP1
F1
F2
NP
P1–P25
7G 6G 5G 4G 3G 2G 1G

COMPONENT NAME	FRONT (VFD)	02/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86315A	KR06T81 (2/3)	
	SCM144	

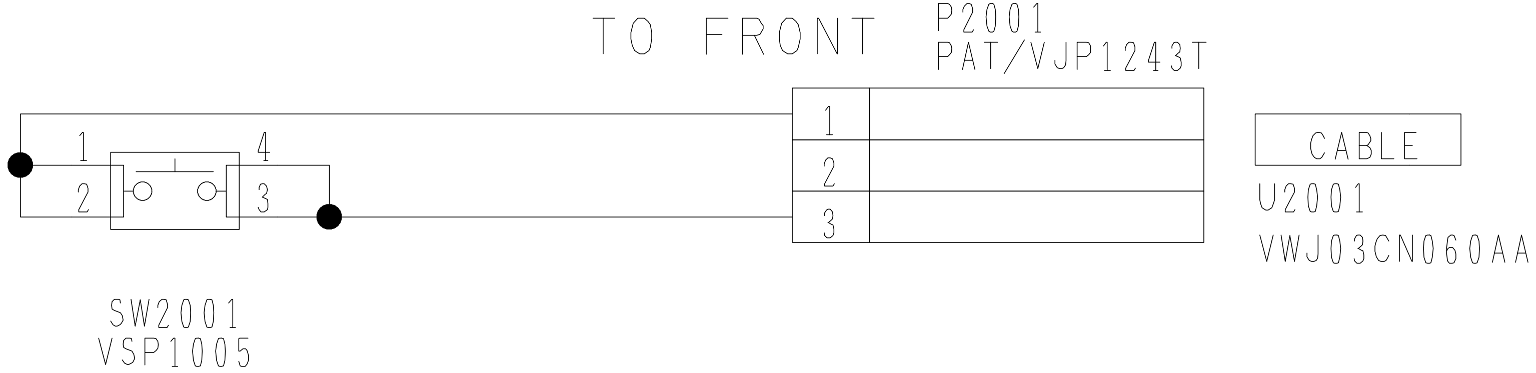


IC9
XC62FP5002PR
C104
0.1/UFV
C105
16V47/EHB
C106
0.1/UFV
VR_GND
IC6
TC74HC4050AF
R110
0/J3
C118
PAT/UFV
R116
0/J3
R117
PAT/J3
VR1
EVUFSA003B14
VR2
EVUFSA003B14
C100
PAT/UFV
C102
PAT/UFV
IC10
NJM2904M-T1
R108
1000/J3
R109
1000/J3
D106
MA716-TX
D107
MA716-TX
C101
PAT/UFV
C103
PAT/UFV
IC14
NJM78L09UAT2
C119
0.1/UFV
C120
16V47/EHB
C121
0.1/UFV
+5V
VFD+5V
EEVHB0J470R
C107
6V47/EHB
C108
0.1/UFV
C109
0.1/UFV
C110
0.1/UFV
C111
0.1/UFV
L1
VLF1151A132T
L2
VLF1151A132T
VFD_GND
MA716-TX
D101
D102
D103
D104
R100
10K/J3
R101
470K/J3
R102
10K/J3
R103
470K/J3
R104
10K/J3
R105
470K/J3
R106
10K/J3
R107
470K/J3
(1, 2) RST_L
(2) STB
(1, 2) CLK
(2) VFDLED
(1) KEY
R111
D1H84734A008
R112
0/J3
R113
0/J3
R114
PAT/J3
R115
PAT/J3
AGND
IC11
NJM78L09UAT2
IC12
NJM79L09UAT2
C112
0.1/UFV
C113
0.1/UFV
C114
16V47/EHB
C115
16V47/EHB
C116
0.1/UFV
C117
0.1/UFV
D105
MA716-TX
R118
0/J3
22 +5V
21 +5V
20 +5V
19 +5V
18 FR_RST_L
17 FR_STB
16 FR_CLK
15 FR_VFDLED
14 FR_KEY
13 GND
12 GND
11 GND
10 VR_GND
9 CH2VR
8 CH1VR
7 +6V
6 -12V
5 +12V
4 HP_MUTE_H
3 HP_R
2 HP_GND
1 HP_L
P1 K1KA22C00001
P2 K1KB08C00003
1 +9V
2 -9V
3 HP_GND
4 MUTE_H
5 HP_GND
6 HP_R
7 HP_GND
8 HP_L
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

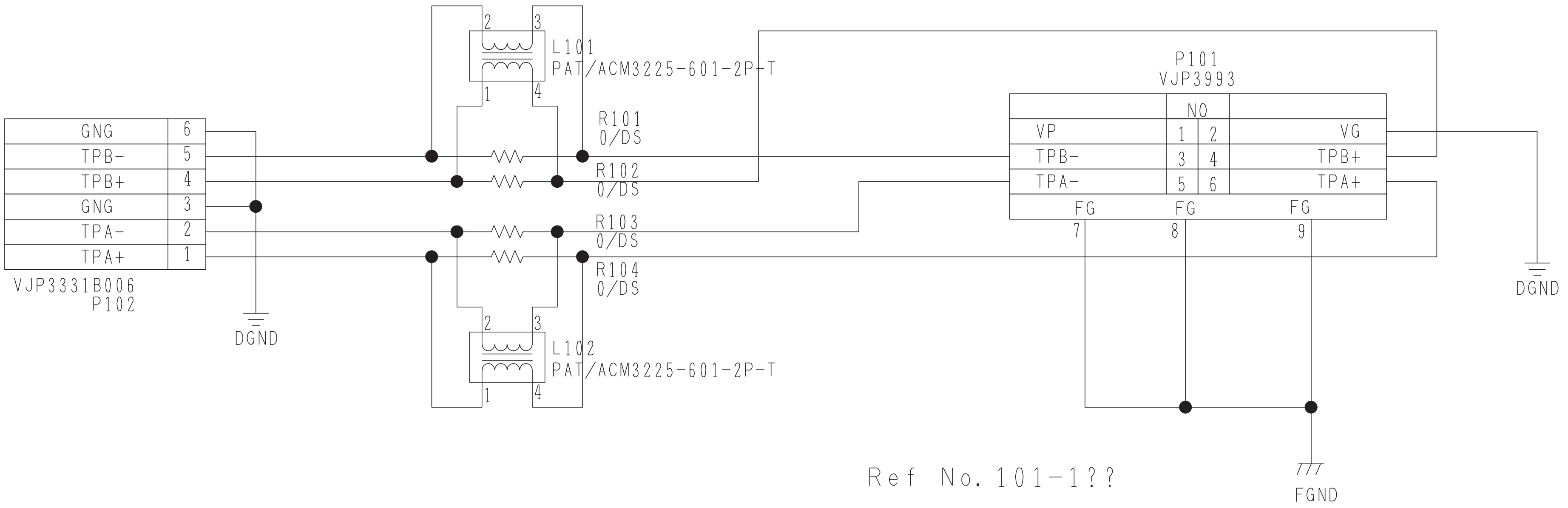
COMPONENT NAME	**FRONT (VR, CONECTOR)**	03/03
CIRCUIT BOARD NO.	DRAWING NO.	
VEP86315A	KR06T81 (3/3)	
	SCM145	


TO FRONT
P1001
K1KA08B00188
HP_POW+ 1
HP_POW- 2
HP_GND 3
MUTE_H 4
HP_GND 5
HP_R 6
HP_GND 7
HP_L 8
R1001 1000/J3
IC1001 NJM4556AM-T1
R1004 330/J6
R1005 270/J6
R1003 27K/J3
R1002 1200/J3
C1001 150P/UV
R1006 1000/J3
2SD1328-TX Q1001
FL1001 VLF1016A223T
L
R
G
VJJ0378
J1001
R1010 0/J3
VR1001 10K
CW
EVUNCA040A14
R1011 1000/J3
IC1001 NJM4556AM-T1
R1014 330/J6
R1015 270/J6
R1013 27K/J3
R1012 1200/J3
C1002 150P/UV
R1016 1000/J3
2SD1328-TX Q1002
FL1002 VLF1016A223T

COMPONENT NAME	**HP (HEAD PHONE)**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C15A	KR0Q25 (1/1)	
	SCM146	

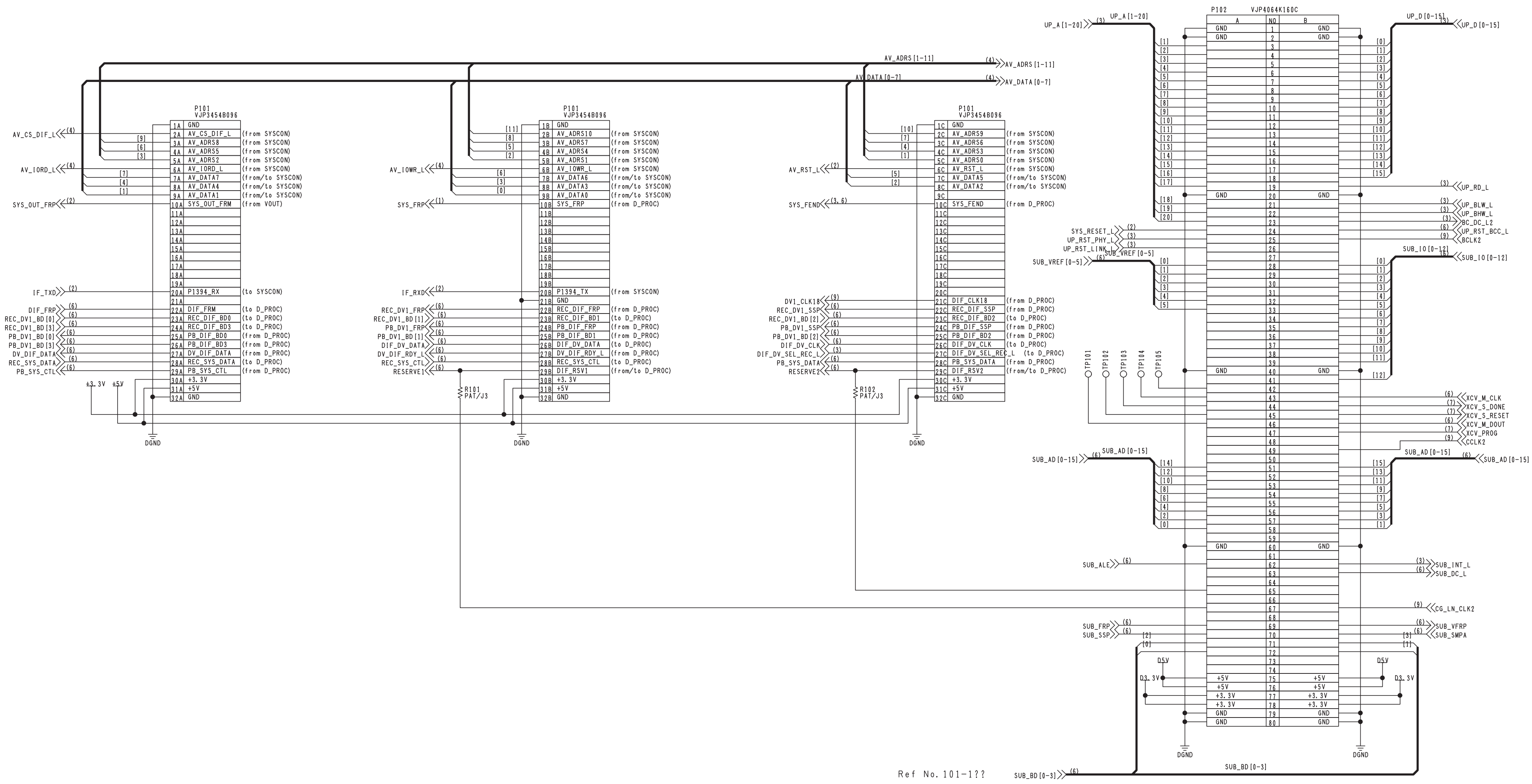

TO FRONT
P2001
PAT/VJP1243T
1
2
3
CABLE
U2001
VWJ03CN060AA
1
4
2
3
SW2001
VSP1005

COMPONENT NAME	**EJECT**	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C16A	KR0Q26 (1/1)	
	SCM147	

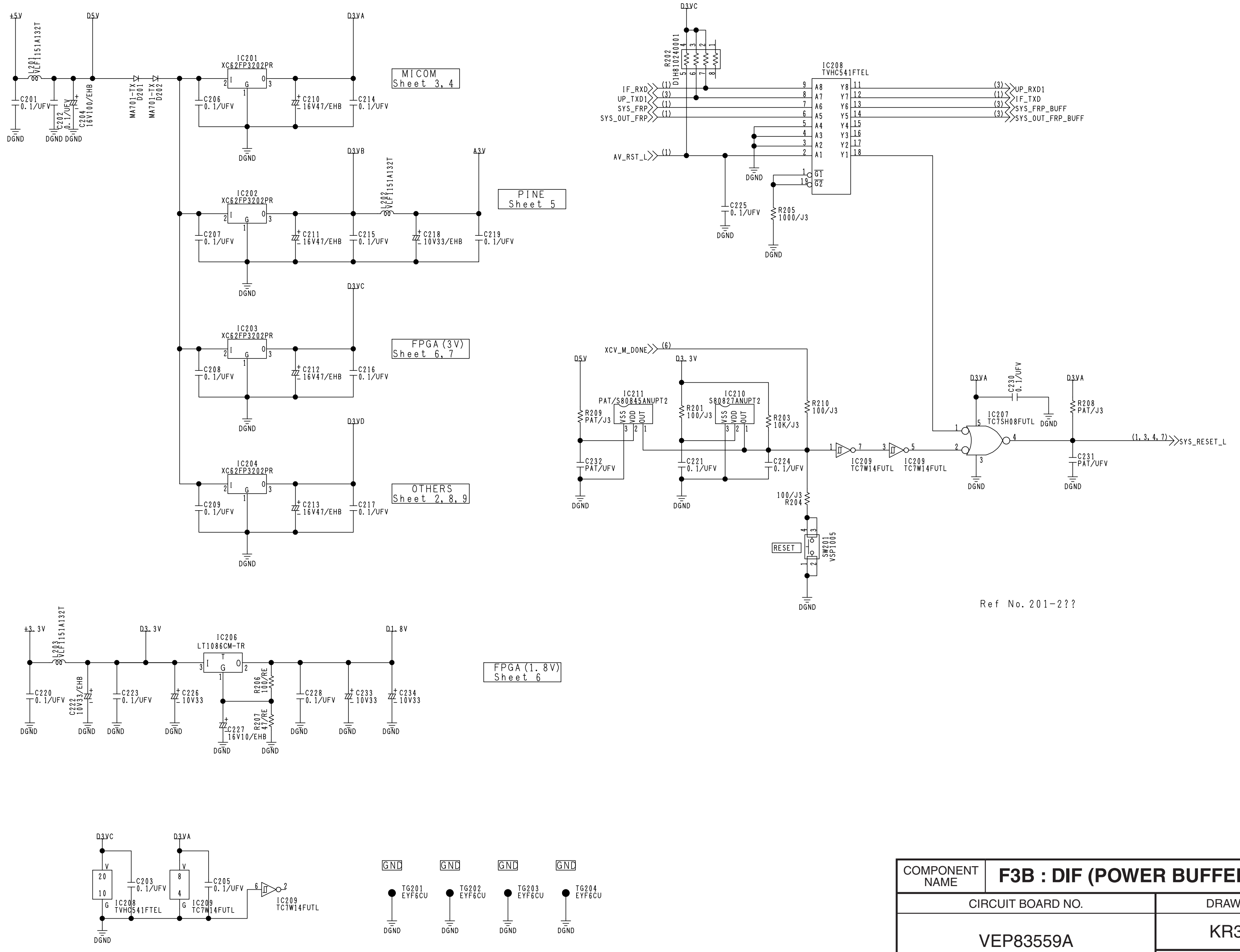

GNG 6
TPB- 5
TPB+ 4
GNG 3
TPA- 2
TPA+ 1
VJP3331B006
P102
DGND
L101
PAT/ACM3225-601-2P-T
R101
0/DS
R102
0/DS
R103
0/DS
R104
0/DS
L102
PAT/ACM3225-601-2P-T
P101
VJP3993
NO
VP 1 2 VG
TPB- 3 4 TPB+
TPA- 5 6 TPA+
FG 7
FG 8
FG 9
DGND
FGND

Ref No. 101-1??

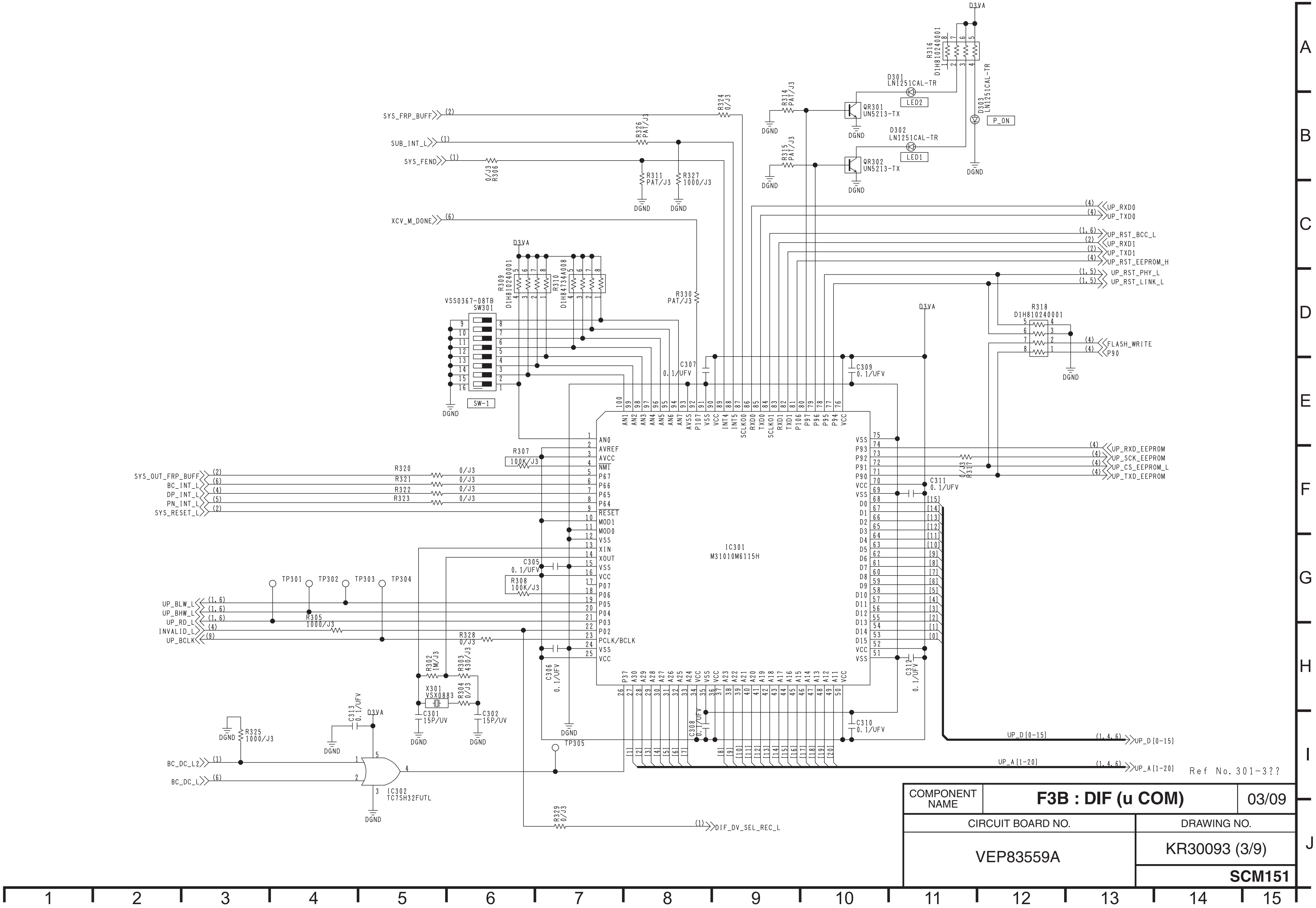
COMPONENT NAME	DIF JACK (1394 JACK)	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP80C21A	KR0Q49 (1/1)	
	SCM148	


P101
VJP3454B096
P102
VJP4064K160C
AV_ADRS[1-11]
AV_DATA[0-7]
AV_CS_DIF_L
AV_IORD_L
SYS_OUT_FRP
IF_TXD
DIF_FRP
REC_DV1_BD[0]
REC_DV1_BD[3]
PB_DV1_BD[0]
PB_DV1_BD[3]
DV_DIF_DATA
REC_SYS_DATA
PB_SYS_CTL
AV_IOWR_L
SYS_FRP
IF_RXD
REC_DV1_FRP
REC_DV1_BD[1]
PB_DV1_FRP
PB_DV1_BD[1]
DIF_DV_DATA
DV_DIF_RDY_L
REC_SYS_CTL
RESERVE1
AV_RST_L
SYS_FEND
DV1_CLK18
REC_DV1_SSP
REC_DV1_BD[2]
PB_DV1_SSP
PB_DV1_BD[2]
DIF_DV_CLK
DIF_DV_SEL_REC_L
PB_SYS_DATA
RESERVE2
R101
PAT/J3
R102
PAT/J3
+3.3V
+5V
DGND
UP_A[1-20]
UP_D[0-15]
UP_RD_L
UP_BLW_L
UP_BHW_L
BC_DC_L2
UP_RST_BCC_L
BCLK2
SYS_RESET_L
UP_RST_PHY_L
UP_RST_LINK_L
SUB_VREF[0-5]
SUB_IO[0-12]
TP101
TP102
TP103
TP104
TP105
XCV_M_CLK
XCV_S_DONE
XCV_S_RESET
XCV_M_DOUT
XCV_PROG
CCLK2
SUB_AD[0-15]
SUB_ALE
SUB_INT_L
SUB_DC_L
CG_LN_CLK2
SUB_FRP
SUB_SSP
SUB_VFRP
SUB_SMPA
D5V
D3.3V
SUB_BD[0-3]
Ref No. 101-1??

COMPONENT NAME	F3B : DIF (MOTHER)	01/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (1/9)	
	SCM149	


+5V
D5V
D3VA
L201 VLF151A132T
C201 0.1/UFV
C202 0.1/UFV
C204 16V100/EHB
MA701-TX D201
MA701-TX D202
IC201 XC62FP3202PR
C206 0.1/UFV
C210 16V47/EHB
C214 0.1/UFV
MICOM Sheet 3, 4
D3VB
A3V
IC202 XC62FP3202PR
L202 VLF151A132T
C207 0.1/UFV
C211 16V47/EHB
C215 0.1/UFV
C218 10V33/EHB
C219 0.1/UFV
PINE Sheet 5
D3VC
IC203 XC62FP3202PR
C208 0.1/UFV
C212 16V47/EHB
C216 0.1/UFV
FPGA (3V) Sheet 6, 7
D3VD
IC204 XC62FP3202PR
C209 0.1/UFV
C213 16V47/EHB
C217 0.1/UFV
OTHERS Sheet 2, 8, 9
DGND
R202 D1H810240001
IC208 TVHC541FTEL
IF_RXD (1)
UP_TXD1 (3)
SYS_FRP (1)
SYS_OUT_FRP (1)
AV_RST_L (1)
(3) UP_RXD1
(1) IF_TXD
(3) SYS_FRP_BUFF
(3) SYS_OUT_FRP_BUFF
C225 0.1/UFV
R205 1000/J3
XCV_M_DONE (6)
D5V
D3.3V
IC211 PAT/S80845ANUPT2
IC210 S80827ANUPT2
R209 PAT/J3
R201 100/J3
R203 10K/J3
R210 100/J3
C232 PAT/UFV
C221 0.1/UFV
C224 0.1/UFV
100/J3 R204
RESET
SW201 VSP1005
IC209 TC7W14FUTL
IC209 TC7W14FUTL
D3VA
C230 0.1/UFV
IC207 TC7SH08FUTL
R208 PAT/J3
C231 PAT/UFV
(1, 3, 4, 7) SYS_RESET_L
Ref No. 201-2??
+3.3V
L203 VLF151A132T
D3.3V
IC206 LT1086CM-TR
D1.8V
C220 0.1/UFV
C222 10V33/EHB
C223 0.1/UFV
C226 10V33
R206 100/RE
R207 47/RE
C227 16V10/EHB
C228 0.1/UFV
C233 10V33
C234 10V33
FPGA (1.8V) Sheet 6
D3VC
D3VA
C203 0.1/UFV
IC208 TVHC541FTEL
C205 0.1/UFV
IC209 TC7W14FUTL
IC209 TC7W14FUTL
GND
TG201 EYF6CU
TG202 EYF6CU
TG203 EYF6CU
TG204 EYF6CU

COMPONENT NAME	F3B : DIF (POWER BUFFER)	02/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093
		SCM150


D3VA
R316
D1H81024O001
D301
LN1251CAL-TR
LED2
D303
LN1251CAL-TR
P_ON
R314
PAT/J3
QR301
UN5213-TX
DGND
R315
PAT/J3
QR302
UN5213-TX
D302
LN1251CAL-TR
LED1
R324
0/J3
SYS_FRP_BUFF
(2)
R326
PAT/J3
SUB_INT_L
(1)
SYS_FEND
(1)
R306
0/J3
R311
PAT/J3
R327
1000/J3
XCV_M_DONE
(6)
UP_RXD0
UP_TXD0
UP_RST_BCC_L
UP_RXD1
UP_TXD1
UP_RST_EEPROM_H
UP_RST_PHY_L
UP_RST_LINK_L
R309
D1H81024O001
R310
D1H84734A008
VSS0367-08TB
SW301
SW-1
R330
PAT/J3
C307
0.1/UFV
C309
0.1/UFV
R318
D1H81024O001
FLASH_WRITE
P90
R307
100K/J3
SYS_OUT_FRP_BUFF
BC_INT_L
DP_INT_L
PN_INT_L
SYS_RESET_L
R320
R321
R322
R323
0/J3
IC301
M31010M6115H
AN0
AVREF
AVCC
NMI
P67
P66
P65
P64
RESET
MOD1
MOD0
VSS
XIN
XOUT
VCC
P07
P06
P05
P04
P03
P02
PCLK/BCLK
UP_RXD_EEPROM
UP_SCK_EEPROM
UP_CS_EEPROM_L
UP_TXD_EEPROM
R317
C311
0.1/UFV
C305
0.1/UFV
R308
100K/J3
TP301
TP302
TP303
TP304
UP_BLW_L
UP_BHW_L
UP_RD_L
INVALID_L
UP_BCLK
R305
1000/J3
R328
0/J3
C306
0.1/UFV
C312
0.1/UFV
R302
1M/J3
R303
430/J3
X301
VSX0883
R304
0/J3
C301
15P/UV
C302
15P/UV
C313
0.1/UFV
C308
0.1/UFV
C310
0.1/UFV
TP305
UP_D[0-15]
(1,4,6)
UP_A[1-20]
R325
1000/J3
BC_DC_L2
BC_DC_L
IC302
TC75H32FUTL
R329
0/J3
DIF_DV_SEL_REC_L
Ref No.301-3??
A
B
C
D
E
F
G
H
I
J
1
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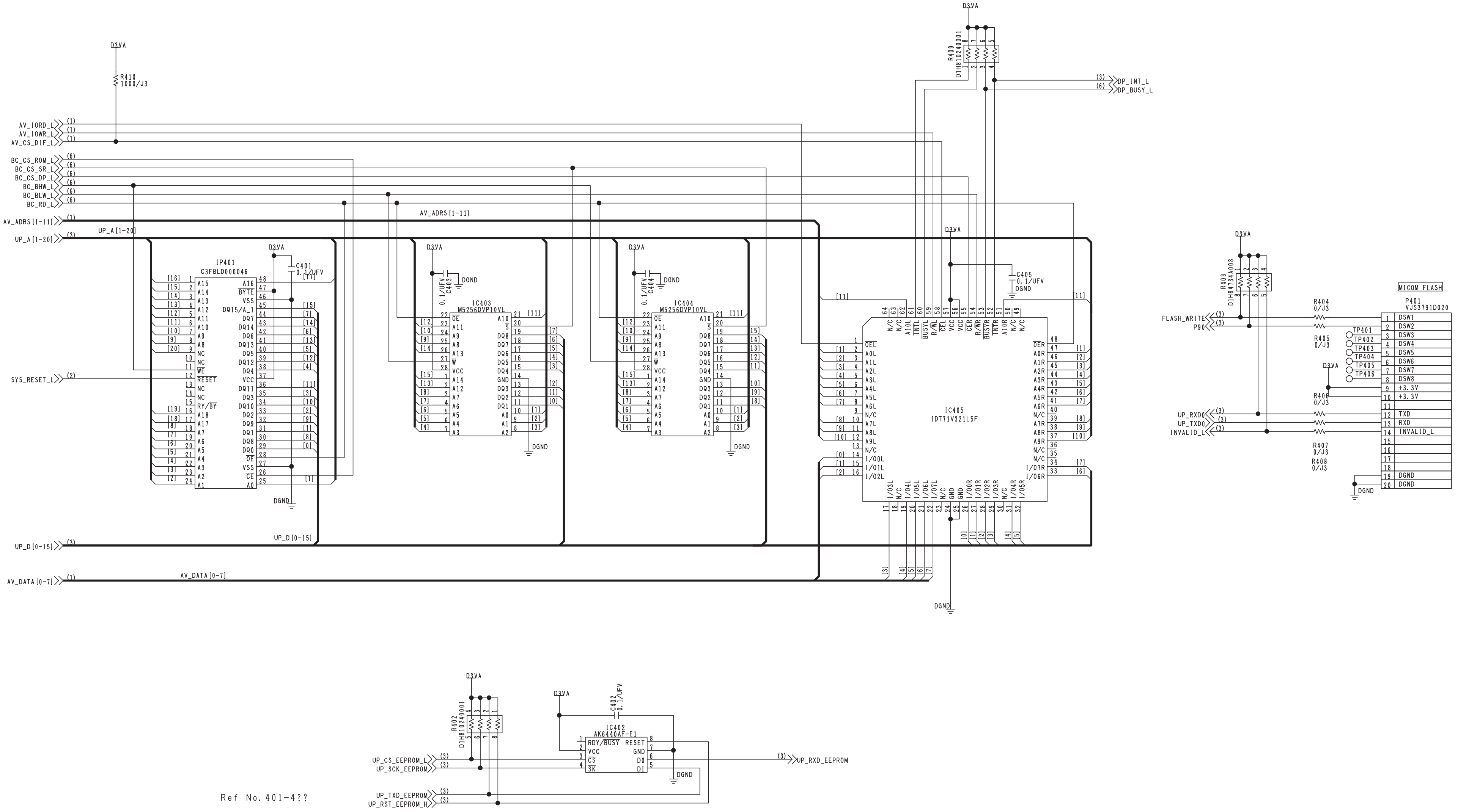
COMPONENT NAME	F3B : DIF (u COM)		03/09
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83559A		KR30093 (3/9)	
		SCM151	


D3VA
R410
1000/J3
AV_IORD_L
AV_IOWR_L
AV_CS_DIF_L
BC_CS_ROM_L
BC_CS_SR_L
BC_CS_DP_L
BC_BHW_L
BC_BLW_L
BC_RD_L
AV_ADRS[1-11]
UP_A[1-20]
SYS_RESET_L
UP_D[0-15]
AV_DATA[0-7]
IP401
C3FBLD000046
C401
0.1/UFV
DGND
IC403
M5256DVP10VL
C403
0.1/UFV
IC404
M5256DVP10VL
C404
0.1/UFV
IC405
IDT71V321L5F
C405
0.1/UFV
R409
D1H810240001
DP_INT_L
DP_BUSY_L
R403
D1H84734A008
FLASH_WRITE
P90
R404
0/J3
R405
0/J3
TP401
TP402
TP403
TP404
TP405
TP406
R406
0/J3
R407
0/J3
R408
0/J3
UP_RXD0
UP_TXD0
INVALID_L
MICOM FLASH
P401
VJS3791D020
DSW1
DSW2
DSW3
DSW4
DSW5
DSW6
DSW7
DSW8
+3.3V
+3.3V
TXD
RXD
INVALID_L
DGND
DGND
R402
D1H810240001
IC402
AK6440AF-E1
RDY/BUSY
VCC
CS
SK
RESET
GND
DO
DI
C402
0.1/UFV
UP_CS_EEPROM_L
UP_SCK_EEPROM
UP_TXD_EEPROM
UP_RST_EEPROM_H
UP_RXD_EEPROM
Ref No. 401-4??
A
B
C
D
E
F
G
H
I
J
1
2
3
4
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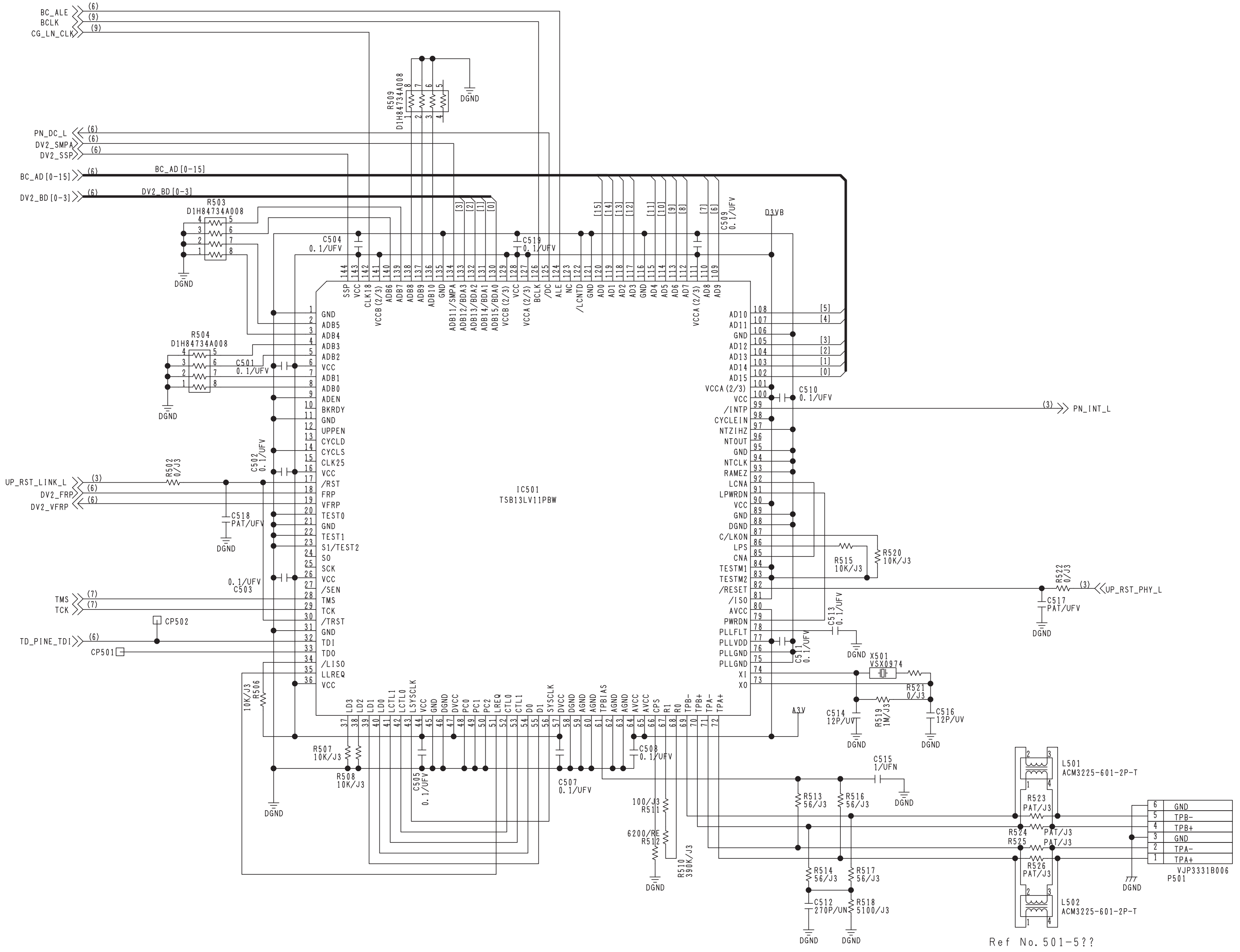
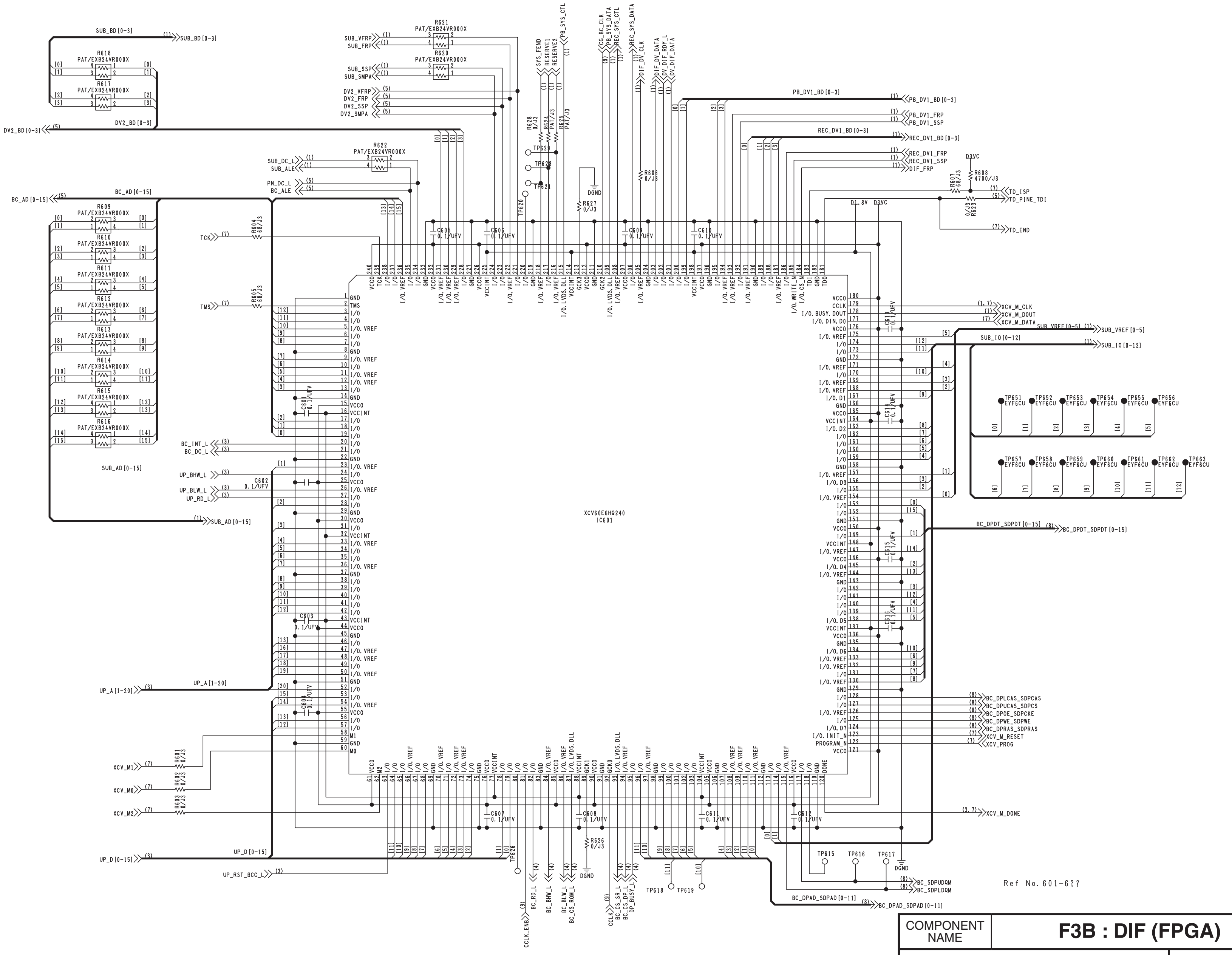
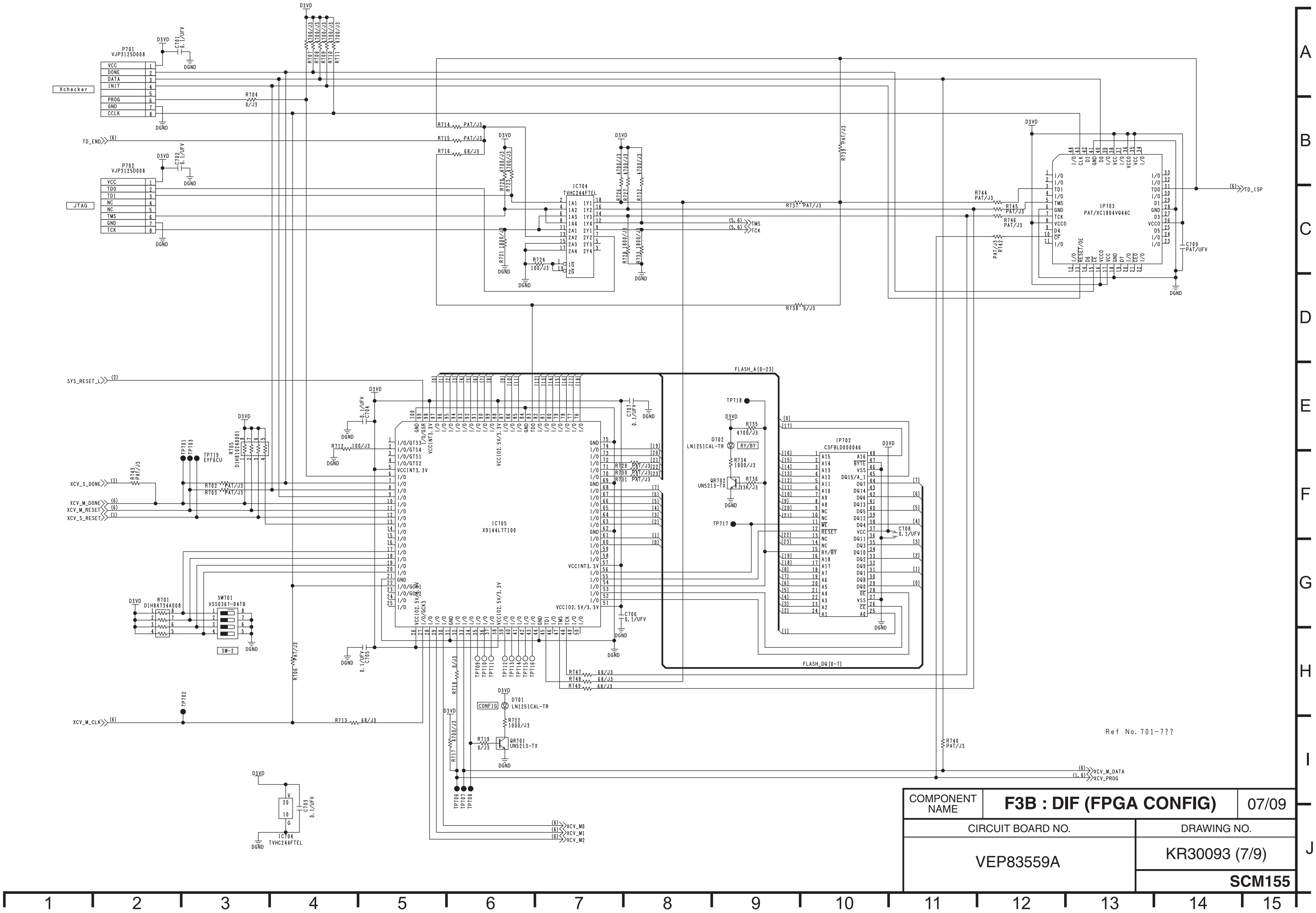
COMPONENT NAME	F3B : DIF (uCOM MEMORY)		04/09
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83559A		KR30093 (4/9)	
		SCM152	


BC_ALE
BCLK
CG_LN_CLK
PN_DC_L
DV2_SMPA
DV2_SSP
BC_AD[0-15]
DV2_BD[0-3]
UP_RST_LINK_L
DV2_FRP
DV2_VFRP
TMS
TCK
TD_PINE_TDI
CP501
CP502
R509
D1H84734A008
R503
D1H84734A008
R504
D1H84734A008
C501 0.1/UFV
C502 0.1/UFV
C503 0.1/UFV
C504 0.1/UFV
C505 0.1/UFV
C507 0.1/UFV
C508 0.1/UFV
C509 0.1/UFV
C510 0.1/UFV
C511 0.1/UFV
C513 0.1/UFV
C518 PAT/UFV
C519 0.1/UFV
R502 0/J3
R506 10K/J3
R507 10K/J3
R508 10K/J3
IC501
TSB13LV11PBW
D3VB
A3V
DGND
PN_INT_L
UP_RST_PHY_L
R522 0/J3
C517 PAT/UFV
R515 10K/J3
R520 10K/J3
X501 VSX0974
R521 0/J3
R519 1M/J3
C514 12P/UV
C516 12P/UV
C515 1/UFN
C512 270P/UN
R510 390K/J3
R511 100/J3
R512 6200/RE
R513 56/J3
R516 56/J3
R514 56/J3
R517 56/J3
R518 5100/J3
R523 PAT/J3
R524 PAT/J3
R525 PAT/J3
R526 PAT/J3
L501 ACM3225-601-2P-T
L502 ACM3225-601-2P-T
P501 VJP3331B006
GND
TPB-
TPB+
GND
TPA-
TPA+
Ref No.501-5??

COMPONENT NAME	F3B : DIF (PINE)	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (5/9)	
	SCM153	


XCV60E6HQ240
IC601
SUB_BD[0-3]
DV2_BD[0-3]
BC_AD[0-15]
SUB_AD[0-15]
R609 PAT/EXB24VR000X
R610 PAT/EXB24VR000X
R611 PAT/EXB24VR000X
R612 PAT/EXB24VR000X
R613 PAT/EXB24VR000X
R614 PAT/EXB24VR000X
R615 PAT/EXB24VR000X
R616 PAT/EXB24VR000X
R617 PAT/EXB24VR000X
R618 PAT/EXB24VR000X
R620 PAT/EXB24VR000X
R621 PAT/EXB24VR000X
R622 PAT/EXB24VR000X
SUB_VFRP
SUB_FRP
SUB_SSP
SUB_SMPA
DV2_VFRP
DV2_FRP
DV2_SSP
DV2_SMPA
SUB_DC_L
SUB_ALE
PN_DC_L
BC_ALE
TCK
TMS
R604 68/J3
R605 68/J3
BC_INT_L
BC_DC_L
UP_BHW_L
UP_BLW_L
UP_RD_L
C602 0.1/UFV
UP_A[1-20]
XCV_M1
XCV_M0
XCV_M2
R601 0/J3
R602 0/J3
R603 0/J3
UP_D[0-15]
UP_RST_BCC_L
C605 0.1/UFV
C606 0.1/UFV
C609 0.1/UFV
C610 0.1/UFV
C607 0.1/UFV
C608 0.1/UFV
C611 0.1/UFV
C612 0.1/UFV
C603 0.1/UFV
PB_SYS_CTL
SYS_FEND
RESERVE1
RESERVE2
CG_BC_CLK
PB_SYS_DATA
REC_SYS_CTL
REC_SYS_DATA
DIF_DV_CLK
DIF_DV_DATA
DV_DIF_RDY_L
DV_DIF_DATA
R628 0/J3
R624 PAT/J3
R625 PAT/J3
R606 0/J3
R627 0/J3
TP629
TP628
TP621
TP620
DGND
PB_DV1_BD[0-3]
PB_DV1_FRP
PB_DV1_SSP
REC_DV1_BD[0-3]
REC_DV1_FRP
REC_DV1_SSP
DIF_FRP
D3VC
D1.8V
R607 68/J3
R608 4700/J3
R623 0/J3
TD_ISP
TD_PINE_TDI
TD_END
XCV_M_CLK
XCV_M_DOUT
XCV_M_DATA
SUB_VREF[0-5]
SUB_IO[0-12]
TP651 EYF6CU
TP652 EYF6CU
TP653 EYF6CU
TP654 EYF6CU
TP655 EYF6CU
TP656 EYF6CU
TP657 EYF6CU
TP658 EYF6CU
TP659 EYF6CU
TP660 EYF6CU
TP661 EYF6CU
TP662 EYF6CU
TP663 EYF6CU
BC_DPDT_SDPDT[0-15]
BC_DPLCAS_SDPCAS
BC_DPUCAS_SDPCS
BC_DPOE_SDPCKE
BC_DPWE_SDPWE
BC_DPRAS_SDPRAS
XCV_M_RESET
XCV_PROG
XCV_M_DONE
TP615
TP616
TP617
TP618
TP619
TP626
R626 0/J3
BC_SDPUDQM
BC_SDPLDQM
BC_DPAD_SDPAD[0-11]
CCLK_ENB
BC_RD_L
BC_BHW_L
BC_BLW_L
BC_CS_ROM_L
CCLK
BC_CS_SR_L
BC_CS_DP_L
DP_BUSY_L
Ref No. 601-6??

COMPONENT NAME	F3B : DIF (FPGA)	06/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (6/9)	
	SCM154	


Xchecker
P701
VJP3125D008
VCC
DONE
DATA
INIT
PROG
GND
CCLK
D3VD
C701 0.1/UFV
DGND
R704 0/J3
R707 4700/J3
R708 4700/J3
R709 4700/J3
R710 4700/J3
R711 4700/J3
TD_END
JTAG
P702
VJP3125D008
TDO
TDI
NC
TMS
TCK
C702 0.1/UFV
R714 PAT/J3
R715 PAT/J3
R716 68/J3
R720 4700/J3
R723 4700/J3
R721 1800/J3
R724 100/J3
IC704
TVHC244FTEL
R726 4700/J3
R727 4700/J3
R732 4700/J3
R728 1800/J3
R733 1800/J3
TMS
TCK
R737 PAT/J3
R739 PAT/J3
R738 0/J3
R744 PAT/J3
R745 PAT/J3
R746 PAT/J3
R742 PAT/J3
IP703
PAT/XC1804VQ44C
TD_ISP
C709 PAT/UFV
SYS_RESET_L
FLASH_A[0-23]
IC705
X9144L7T100
C704 0.1/UFV
C707 0.1/UFV
C705 0.1/UFV
C706 0.1/UFV
R712 100/J3
XCV_S_DONE
XCV_M_DONE
XCV_M_RESET
XCV_S_RESET
R743 PAT/J3
R702 PAT/J3
R703 PAT/J3
R705 D1H8124D001
TP701
TP703
TP719 EYF6CU
R729 PAT/J3
R730 PAT/J3
R731 PAT/J3
TP718
D702
LN1251CAL-TR
RY/BY
R735 4700/J3
R734 1000/J3
R736 33K/J3
QR702
UN5213-TX
TP717
IP702
C3FBLD000046
C708 0.1/UFV
FLASH_DQ[0-7]
R701
D1H84734A008
SW701
VSS0367-04TB
SW-2
R706 PAT/J3
TP702
XCV_M_CLK
R713 68/J3
R718 0/J3
R717 4700/J3
TP709
TP710
TP711
TP712
TP713
TP714
TP715
TP716
D701
LN1251CAL-TR
CONFIG
R722 1000/J3
R719 0/J3
QR701
UN5213-TX
R747 68/J3
R748 68/J3
R749 68/J3
R740 PAT/J3
XCV_M_DATA
XCV_PROG
TP706
TP707
TP708
XCV_M0
XCV_M1
XCV_M2
C703 0.1/UFV
IC704
TVHC244FTEL
Ref No. 701-7??
A
B
C
D
E
F
G
H
I
J
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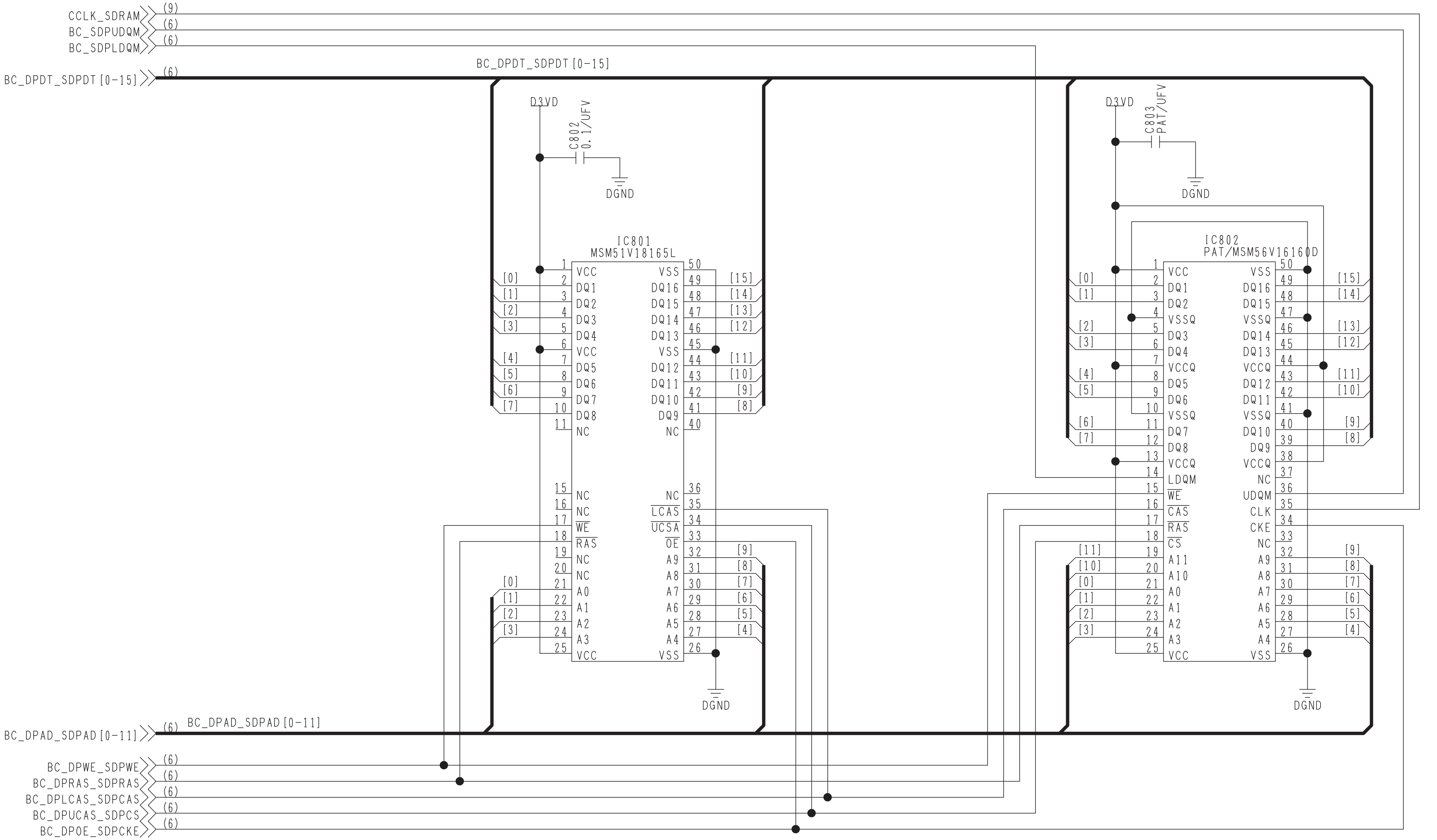
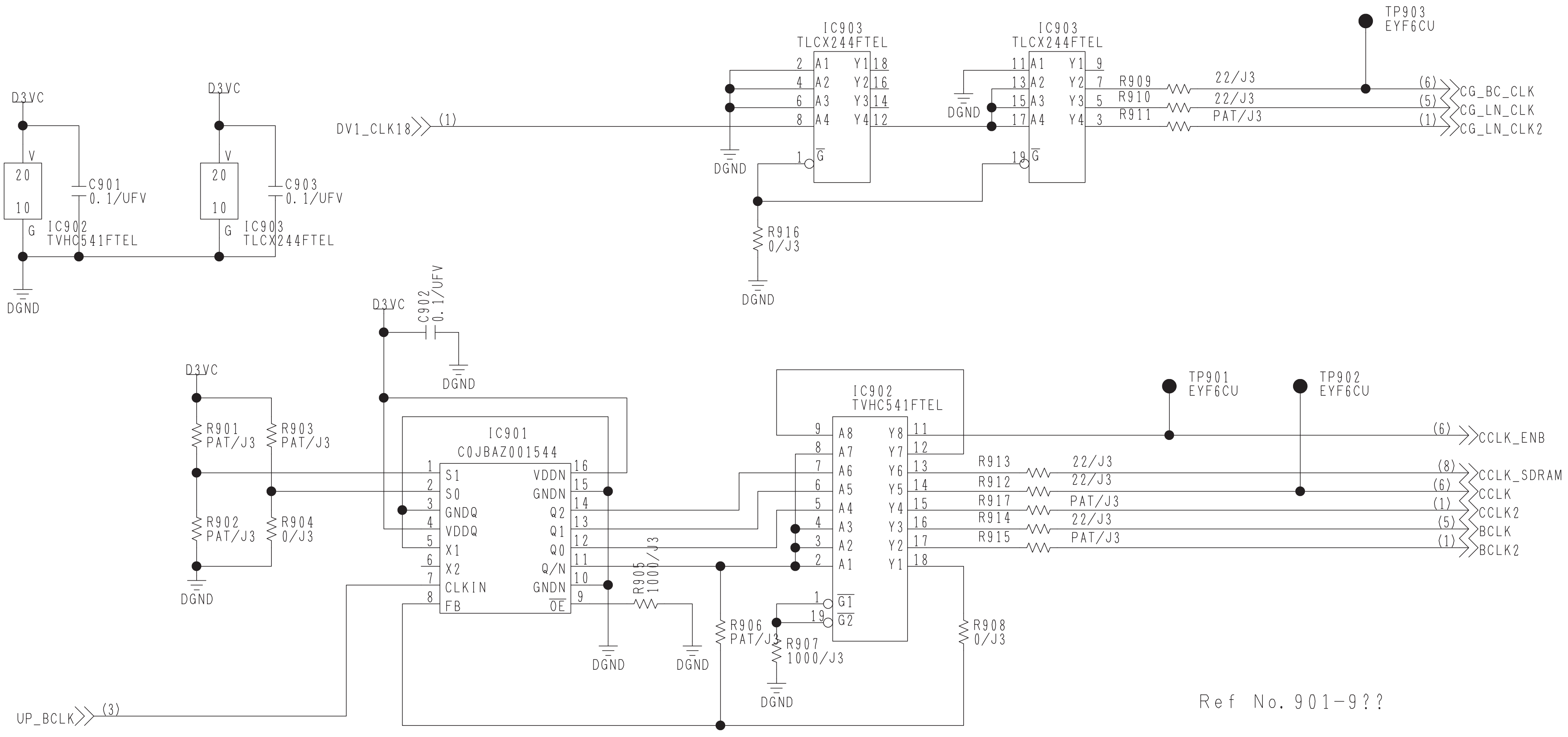
COMPONENT NAME	F3B : DIF (FPGA CONFIG)	07/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (7/9)
		SCM155


CCLK_SDRAM (9)
BC_SDPUDQM (6)
BC_SDPLDQM (6)
BC_DPDT_SDPDT[0-15] (6)
BC_DPDT_SDPDT[0-15]
D3VD
C802 0.1/UFV
DGND
D3VD
C803 PAT/UFV
DGND
IC801
MSM51V18165L
1 VCC
2 DQ1
3 DQ2
4 DQ3
5 DQ4
6 VCC
7 DQ5
8 DQ6
9 DQ7
10 DQ8
11 NC
15 NC
16 NC
17 WE
18 RAS
19 NC
20 NC
21 A0
22 A1
23 A2
24 A3
25 VCC
50 VSS
49 DQ16
48 DQ15
47 DQ14
46 DQ13
45 VSS
44 DQ12
43 DQ11
42 DQ10
41 DQ9
40 NC
36 NC
35 LCAS
34 UCSA
33 OE
32 A9
31 A8
30 A7
29 A6
28 A5
27 A4
26 VSS
IC802
PAT/MSM56V16160D
1 VCC
2 DQ1
3 DQ2
4 VSSQ
5 DQ3
6 DQ4
7 VCCQ
8 DQ5
9 DQ6
10 VSSQ
11 DQ7
12 DQ8
13 VCCQ
14 LDQM
15 WE
16 CAS
17 RAS
18 CS
19 A11
20 A10
21 A0
22 A1
23 A2
24 A3
25 VCC
50 VSS
49 DQ16
48 DQ15
47 VSSQ
46 DQ14
45 DQ13
44 VCCQ
43 DQ12
42 DQ11
41 VSSQ
40 DQ10
39 DQ9
38 VCCQ
37 NC
36 UDQM
35 CLK
34 CKE
33 NC
32 A9
31 A8
30 A7
29 A6
28 A5
27 A4
26 VSS
DGND
DGND
BC_DPAD_SDPAD[0-11] (6)
BC_DPAD_SDPAD[0-11]
BC_DPWE_SDPWE (6)
BC_DPRAS_SDPRAS (6)
BC_DPLCAS_SDPCAS (6)
BC_DPUCAS_SDPCS (6)
BC_DPOE_SDPCKE (6)

Ref No. 801-8??

COMPONENT NAME	F3B : DIF (FPGA DRAM)	08/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (8/9)	
	SCM156	


IC903
TLCX244FTEL
TP903
EYF6CU
DV1_CLK18
(1)
A1 A2 A3 A4 Y1 Y2 Y3 Y4 G
R909 22/J3
R910 22/J3
R911 PAT/J3
(6) CG_BC_CLK
(5) CG_LN_CLK
(1) CG_LN_CLK2
DGND
R916
0/J3
D3VC
C901
0.1/UFV
IC902
TVHC541FTEL
C903
0.1/UFV
IC903
TLCX244FTEL
C902
0.1/UFV
IC901
C0JBAZ001544
S1 S0 GNDQ VDDQ X1 X2 CLKIN FB
VDDN GNDN Q2 Q1 Q0 Q/N GNDN OE
R901 PAT/J3
R903 PAT/J3
R902 PAT/J3
R904 0/J3
R905 1000/J3
R906 PAT/J3
R907 1000/J3
R908 0/J3
IC902
TVHC541FTEL
A8 A7 A6 A5 A4 A3 A2 A1 G1 G2
Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
TP901
EYF6CU
TP902
EYF6CU
R913 22/J3
R912 22/J3
R917 PAT/J3
R914 22/J3
R915 PAT/J3
(6) CCLK_ENB
(8) CCLK_SDRAM
(6) CCLK
(1) CCLK2
(5) BCLK
(1) BCLK2
UP_BCLK
(3)
Ref No. 901-9??

COMPONENT NAME
F3B : DIF (CLKGEN)
09/09

CIRCUIT BOARD NO.
VEP83559A

DRAWING NO.
KR30093 (9/9)

SCM157

SECTION 6

CIRCUIT BOARD DIAGRAMS

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 7

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

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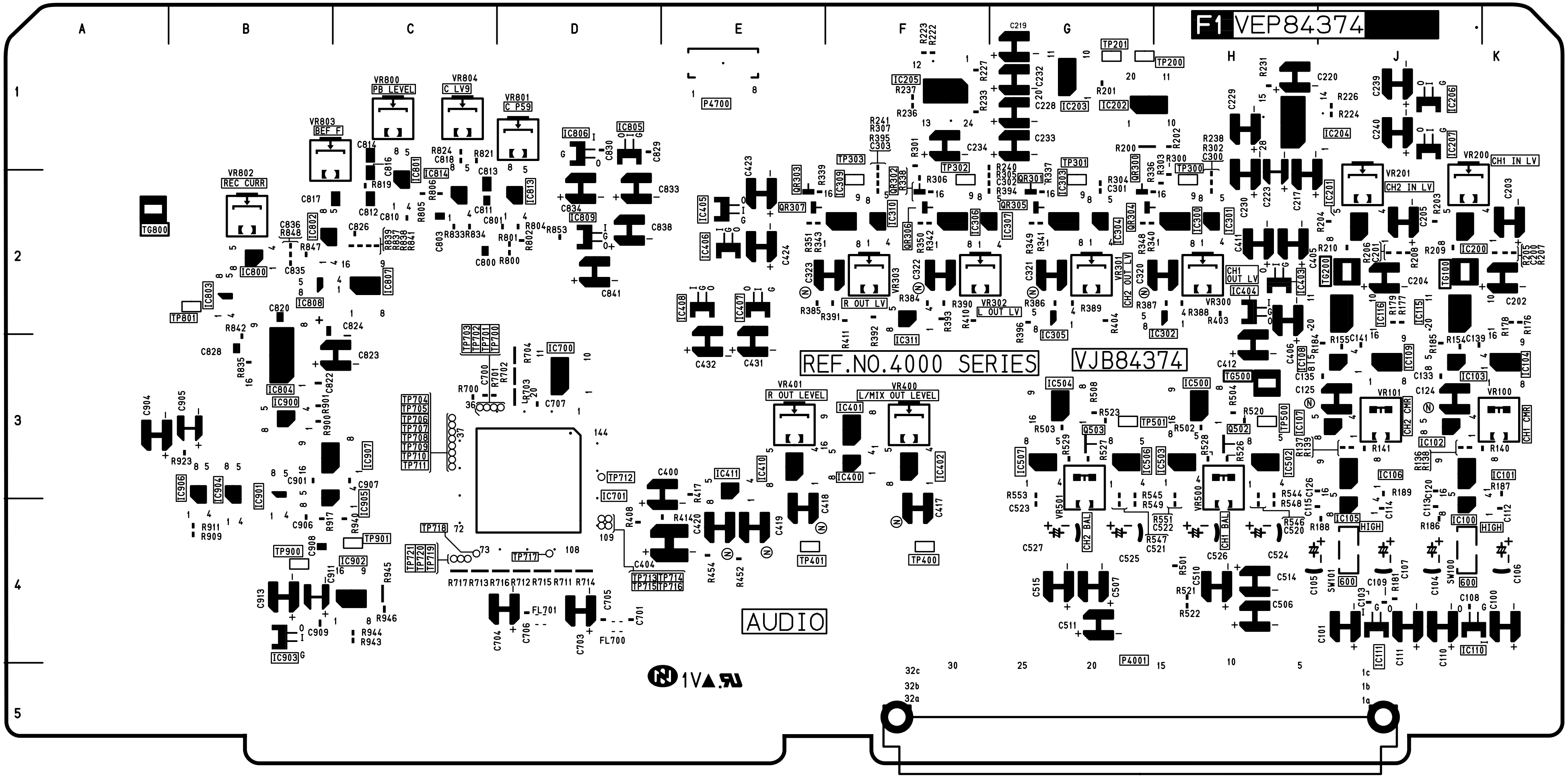
(VEP83559A/VEP80C21A)(AJ-YAD455P)
OPTION CBA-27

F1 AUDIO P.C. BOARD (VEP84374A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4100	J4	IC4110	J4	IC4206	J1	IC4307	F2	IC4404	H2	IC4503	H3	IC4803	B2	IC4900	B3	P4700	E1	QR4306	F2	TP4301	G2	TP4702	C3	TP4711	B3	TP4720	C4	VR4300	H2	VR4801	D1
IC4101	J3	IC4111	J4	IC4207	J1	IC4309	F2	IC4405	E2	IC4504	G3	IC4804	B3	IC4901	B3	Q4502	H3	QR4307	E2	TP4302	F2	TP4703	C3	TP4712	D3	TP4721	C4	VR4301	G2	VR4802	B2
IC4102	J3	IC4115	J2	IC4209	G1	IC4310	F2	IC4406	E2	IC4506	G3	IC4805	D1	IC4902	C4	Q4503	G3	TG4100	J2	TP4303	F2	TP4704	B3	TP4713	D4	TP4801	B2	VR4302	F2	VR4803	B1
IC4103	J3	IC4116	J2	IC4300	H2	IC4311	F2	IC4407	E2	IC4507	G3	IC4806	D1	IC4903	B4	QR4300	G2	TG4200	J2	TP4400	F4	TP4705	B3	TP4714	D4	TP4900	B4	VR4303	F2	VR4804	C1
IC4104	K3	IC4200	J2	IC4301	H2	IC4394	G2	IC4408	E2	IC4700	D3	IC4807	C2	IC4904	B3	QR4301	G2	TG4500	H3	TP4401	E4	TP4706	B3	TP4715	D4	TP4901	B4	VR4400	F3		
IC4105	J4	IC4201	J2	IC4302	H2	IC4400	F3	IC4410	E3	IC4701	D3	IC4808	B2	IC4905	B3	QR4302	F2	TG4800	A2	TP4500	H3	TP4707	B3	TP4716	D4	VR4100	K3	VR4401	E3		
IC4106	J3	IC4202	G1	IC4303	G2	IC4401	F3	IC4411	E3	IC4800	B2	IC4809	D2	IC4906	B3	QR4303	E2	TP4200	G1	TP4501	G3	TP4708	B3	TP4717	D4	VR4101	J3	VR4500	H3		
IC4108	J3	IC4204	H1	IC4305	G2	IC4402	F3	IC4500	H3	IC4801	C2	IC4813	D2	IC4907	B3	QR4304	G2	TP4201	G1	TP4700	C3	TP4709	B3	TP4718	C4	VR4200	J2	VR4501	G3		
IC4109	J3	IC4205	F1	IC4306	F2	IC4403	H2	IC4502	H3	IC4802	B2	IC4814	C2	P4001	G4	QR4305	G2	TP4300	H2	TP4701	C3	TP4710	B3	TP4719	C4	VR4201	J2	VR4800	C1		

CBA-1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F1 VEP84374
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VR804 C LV9
VR801 C P59
VR803 BEF F
VR802 REC CURR
TG800
P4700
REF.NO.4000 SERIES
VJB84374
VR401 R OUT LEVEL
VR400 L/MIX OUT LEVEL
VR303 R OUT LV
VR302 L OUT LV
VR301 CH2 OUT LV
VR300 CH1 OUT LV
VR201 CH2 IN LV
VR200 CH1 IN LV
VR101 CH2 CMR
VR100 CH1 CMR
VR501 CH2 BAL
VR500 CH1 BAL
HIGH
600
AUDIO
1V
P4001
32c
32b
32a
30
25
20
15
10
5
1c
1b
1a

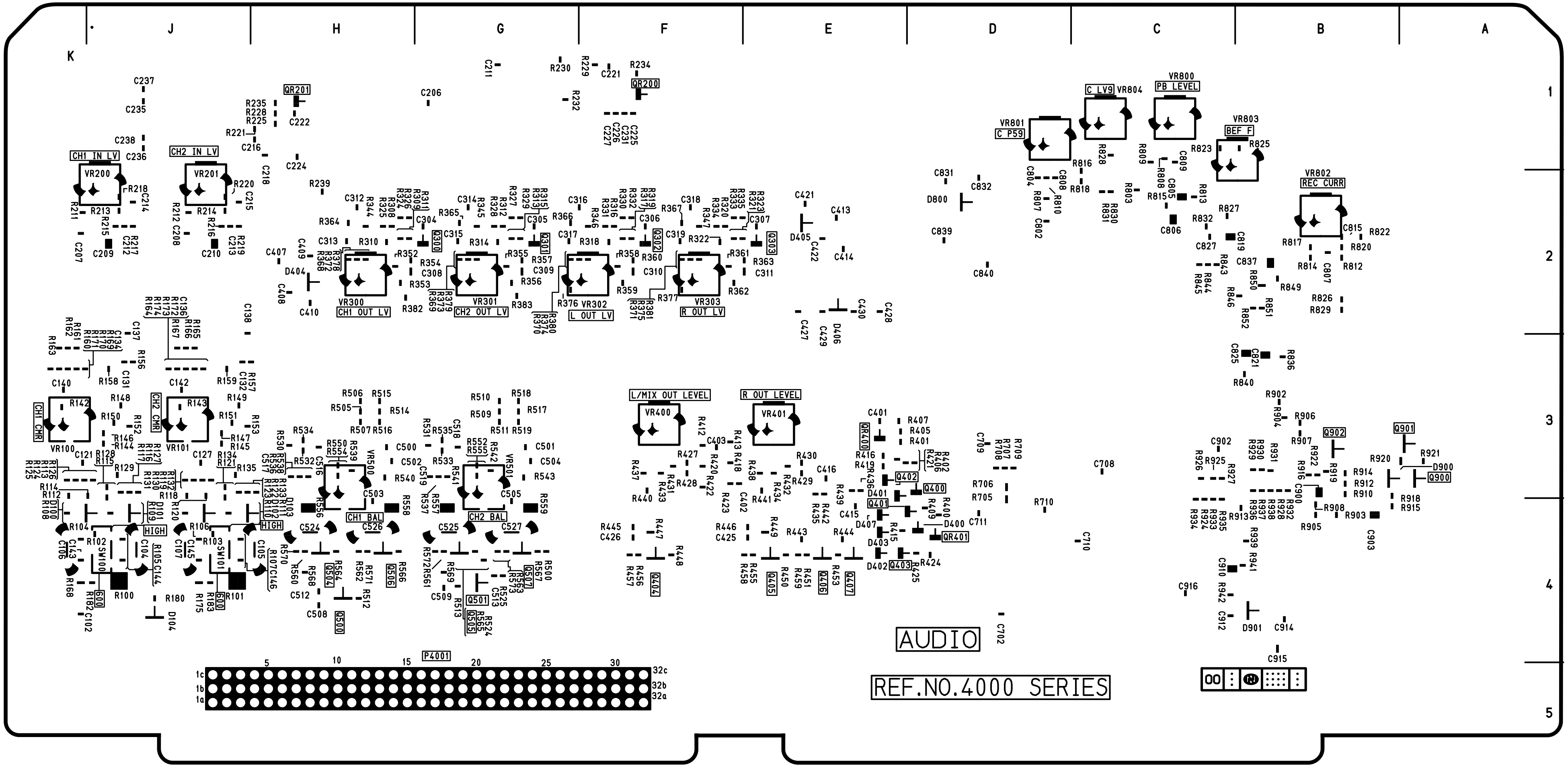
(COMPONENT SIDE)

F1 AUDIO P.C. BOARD (VEP84374A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
P4001	G5	Q4404	F4	Q4507	G4	VR4101	L3	VR4500	H3
Q4300	G2	Q4405	E4	Q4900	A3	VR4200	L2	VR4501	G3
Q4301	G2	Q4406	E4	Q4901	A3	VR4201	L2	VR4800	C1
Q4302	F2	Q4407	E4	Q4902	B3	VR4300	H2	VR4801	D1
Q4303	E2	Q4500	H4	QR4200	F1	VR4301	G2	VR4802	B2
Q4400	D3	Q4501	G4	QR4201	H1	VR4302	F2	VR4803	B1
Q4401	D4	Q4504	H4	QR4400	E3	VR4303	F2	VR4804	C1
Q4402	E3	Q4505	G4	QR4401	D4	VR4400	F3		
Q4403	E4	Q4506	H4	VR4100	K3	VR4401	E3		

CBA-2



J
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CH1 IN LV
VR200
CH2 IN LV
VR201
QR201
QR200
VR300
CH1 OUT LV
VR301
CH2 OUT LV
VR302
L OUT LV
VR303
R OUT LV
Q300
Q301
Q302
Q303
VR801
C P59
C LV9
VR804
VR800
PB LEVEL
VR803
BEF F
VR802
REC CURR
CH1 CMR
VR100
CH2 CMR
VR101
SW100
SW101
HIGH
VR500
CH1 BAL
VR501
CH2 BAL
L/MIX OUT LEVEL
VR400
R OUT LEVEL
VR401
QR400
Q402
Q400
Q401
QR401
Q403
Q404
Q405
Q406
Q407
Q500
Q501
Q504
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Q900
D800
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5
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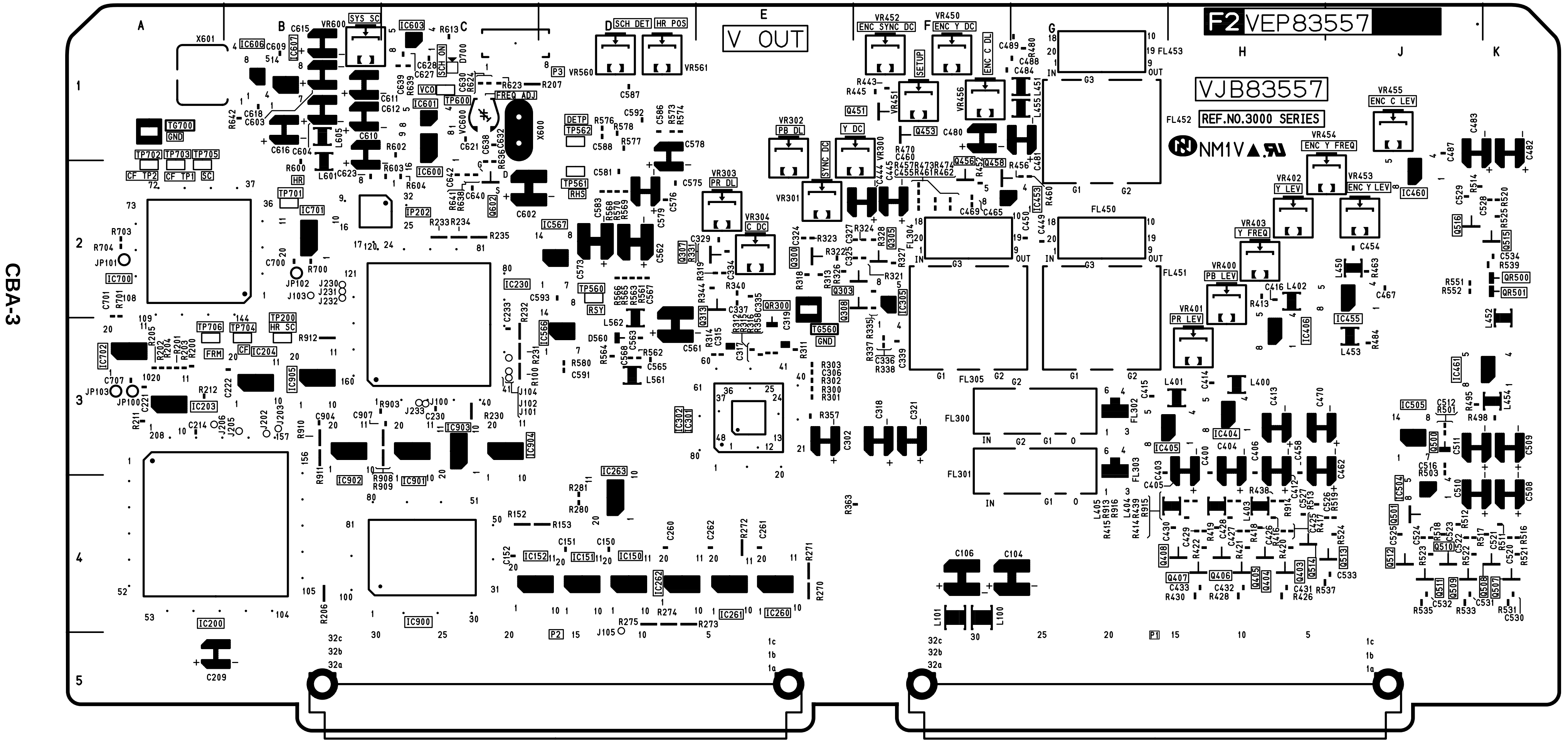
15
20
25
30
1c
1b
1a
32c
32b
32a
AUDIO
REF.NO.4000 SERIES

(FOIL SIDE)

F2 V OUT P.C. BOARD (VEP83557A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3150	D4	IC3262	D4	IC3455	J2	IC3603	C1	IC3903	C3	Q3307	E2	Q3453	F1	Q3511	J4	TG3560	E2	TP3703	A2	VR3304	E2	VR3454	H2
IC3151	D4	IC3263	D4	IC3460	J2	IC3606	B1	IC3904	C3	Q3313	E2	Q3456	F2	Q3512	J4	TG3700	A1	TP3704	B3	VR3400	H2	VR3455	J1
IC3152	C4	IC3301	E3	IC3461	K3	IC3607	B1	IC3905	B3	Q3403	H4	Q3458	F2	Q3514	H4	TP3200	B3	TP3705	A2	VR3401	H3	VR3456	F1
IC3200	A4	IC3302	E3	IC3504	J4	IC3700	A2	IP3202	B2	Q3404	H4	Q3500	J3	Q3515	K2	TP3560	D2	TP3706	A3	VR3402	H2	VR3560	D1
IC3203	A3	IC3305	F2	IC3505	J3	IC3701	B2	P3001	H5	Q3405	H4	Q3500	J4	Q3516	J2	TP3561	D2	VC3600	C1	VR3403	H2	VR3561	D1
IC3204	B3	IC3404	H3	IC3556	D3	IC3702	A3	P3002	D5	Q3406	H4	Q3501	J4	Q3602	C2	TP3562	D1	VR3300	E1	VR3450	F1	VR3600	B1
IC3230	C2	IC3405	H3	IC3567	D2	IC3900	C4	P3003	C1	Q3407	H4	Q3507	K4	QR3300	E3	TP3600	C1	VR3301	E2	VR3451	F1		
IC3260	E4	IC3406	H3	IC3600	C2	IC3901	C3	Q3300	E2	Q3408	H4	Q3508	K4	QR3500	K2	TP3701	B2	VR3302	E1	VR3452	F1		
IC3261	E4	IC3453	F2	IC3601	C1	IC3902	B3	Q3305	F2	Q3451	F1	Q3509	J4	QR3501	K2	TP3702	A2	VR3303	E2	VR3453	J2		


CBA-3
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V OUT
VJB83557
REF.NO.3000 SERIES
NM1V
SYS SC
SCH DET
HR POS
ENC SYNC DC
ENC Y DC
ENC C LEV
ENC Y FREQ
Y LEV
Y FREQ
PB LEV
PR LEV
PB DL
PR DL
C DC
Y DC
SYNC DC
SETUP
ENC C DL
FREQ ADJ
FL450
FL451
FL452
FL453
FL300
FL301
FL305
X601
X600
IC3200
IC3203
IC3204
IC3150
IC3151
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IC3230
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IC3261
IC3262
IC3263
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L101
C104
C106
C209
P1
P2
32c
32b
32a
1c
1b
1a

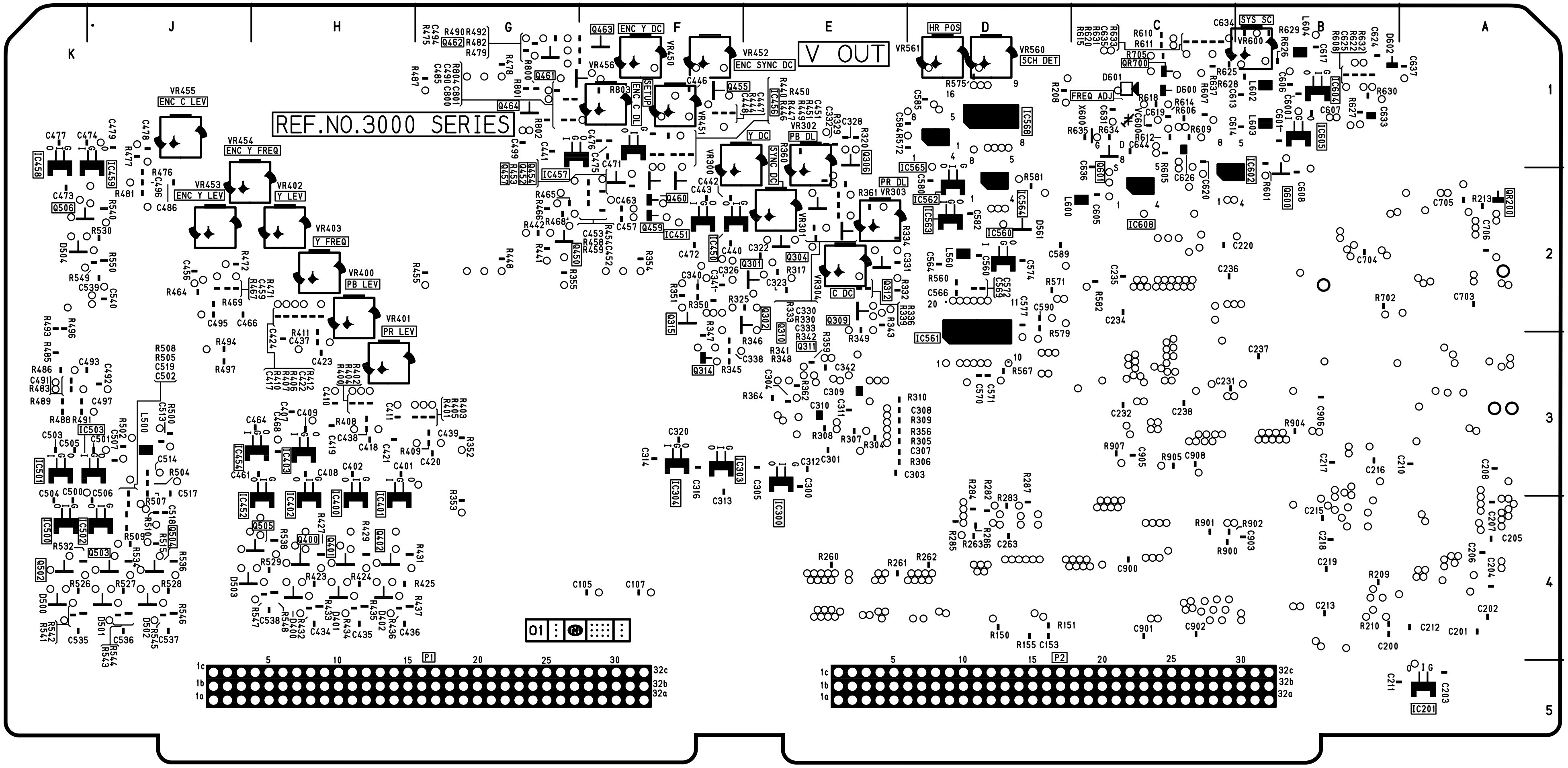
(COMPONENT SIDE)

F2 V OUT P.C. BOARD (VEP83557A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3201	A5	IC3451	F2	IC3502	J4	IC3602	B1	Q3309	E2	Q3450	G2	Q3463	F1	QR3200	A2	VR3401	H3	VR3456	F1
IC3300	E3	IC3452	H4	IC3503	J3	IC3605	B1	Q3310	E2	Q3452	F2	Q3464	G1	QR3700	C1	VR3402	H2	VR3550	D1
IC3303	F3	IC3454	H3	IC3560	D2	IC3608	C2	Q3311	E2	Q3454	F2	Q3502	K4	VC3600	C1	VR3403	H2	VR3551	D1
IC3304	F3	IC3456	F1	IC3561	D3	P3001	G5	Q3312	E2	Q3455	F1	Q3503	J4	VR3300	E1	VR3450	F1	VR3600	B1
IC3400	H4	IC3457	G1	IC3562	D2	P3002	D5	Q3314	F3	Q3457	F2	Q3504	J4	VR3301	E2	VR3451	F1		
IC3401	H4	IC3458	K1	IC3563	D2	Q3301	E2	Q3315	F2	Q3459	F2	Q3505	H4	VR3302	E1	VR3452	F1		
IC3402	H4	IC3459	J2	IC3564	D2	Q3302	F2	Q3400	H4	Q3460	F2	Q3506	K2	VR3303	E2	VR3453	J2		
IC3403	H3	IC3500	K4	IC3565	D1	Q3304	E2	Q3401	H4	Q3461	G1	Q3600	B2	VR3304	E2	VR3454	H2		
IC3450	F2	IC3501	K3	IC3568	D1	Q3306	E1	Q3402	H4	Q3462	G1	Q3601	C1	VR3400	H2	VR3455	J1		

CBA-4



K
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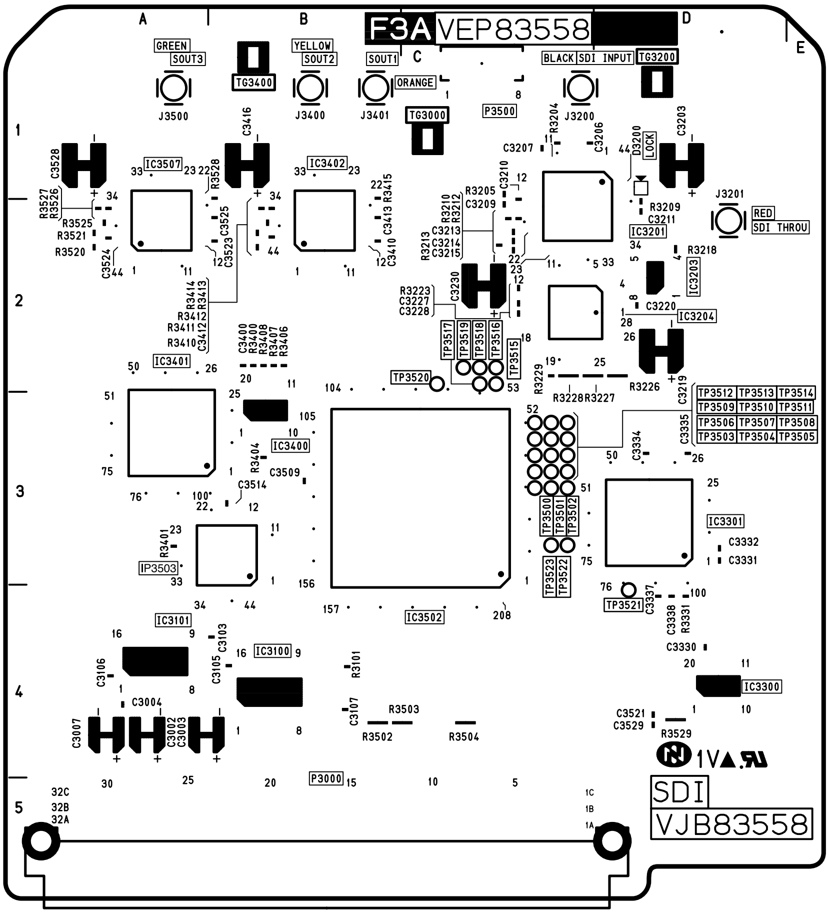
ENC C LEV
ENC Y FREQ
ENC Y LEV
Y LEV
Y FREQ
PB LEV
PR LEV
ENC Y DC
ENC SYNC DC
ENC C DL
SETUP
Y DC
PB DL
SYNC DC
PR DL
C DC
HR POS
SCH DET
FREQ ADJ
SYS SC
P1
P2
1c
1b
1a
32c
32b
32a

(FOIL SIDE)

F3A SDI P.C. BOARD (VEP83558A) (AJ-YA455P)

COMPONENT SIDE

REF	LOC
IC3100	B4
IC3101	A4
IC3201	C2
IC3203	D2
IC3204	C2
IC3300	D4
IC3301	D3
IC3400	B3
IC3401	A3
IC3402	B2
IC3502	C3
IC3507	A2
IP3503	B3
P3000	B5
P3500	C1
TG3000	C1
TG3200	D1
TG3400	B1
TP3500	C3
TP3501	C3
TP3503	C3
TP3504	C3
TP3505	C3
TP3506	C3
TP3507	C3
TP3508	C3
TP3509	C3
TP3510	C3
TP3511	C3
TP3512	C3
TP3513	C3
TP3514	C3
TP3515	C2
TP3516	C2
TP3517	C2
TP3518	C2
TP3519	C2
TP3520	C2
TP3521	D4
TP3522	C3
TP3523	C3


A
B
C
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E
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4
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F3A VEP83558
GREEN SOUT3
YELLOW SOUT2
SOUT1 ORANGE
BLACK SDI INPUT
TG3400
TG3000
TG3200
J3500
J3400
J3401
J3200
J3201
RED SDI THROU
P3500
IC3507
IC3402
IC3201
IC3203
IC3204
IC3401
IC3400
IP3503
IC3101
IC3100
IC3502
IC3301
IC3300
P3000
TP3520
TP3521
TP3522
TP3523
SDI
VJB83558
1V

(COMPONENT SIDE)

FOIL SIDE

REF	LOC
IC3000	A4
IC3102	B4
IC3103	B4
IC3104	A4
IC3105	A4
IC3200	D1
IC3202	D2
IC3205	C2
IC3404	B1
IC3500	C4
IC3501	C4
IC3504	C4
IC3505	D4
IC3506	A1
P3000	B5
QR3200	D1
TP3500	C3
TP3501	C3
TP3502	C3
TP3503	C3
TP3504	C3
TP3506	C3
TP3507	C3
TP3508	C3
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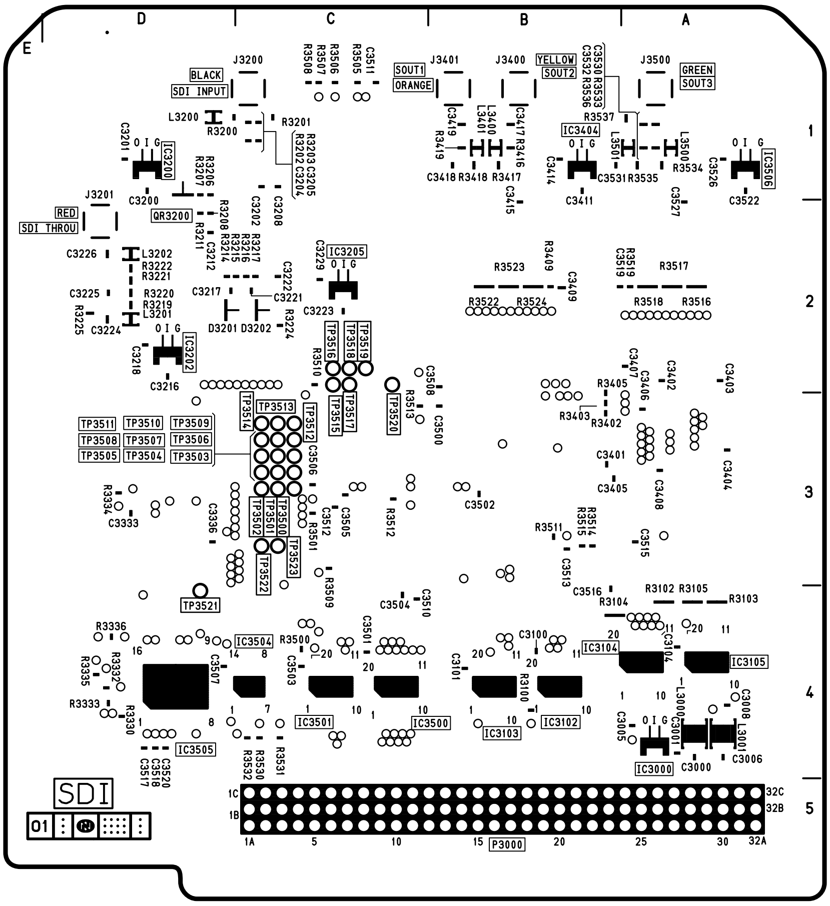
TP3509	C3
TP3510	C3
TP3511	C3
TP3512	C3
TP3513	C3
TP3514	C3
TP3515	C2
TP3516	C2
TP3517	C2
TP3518	C2
TP3519	C2
TP3520	C2
TP3521	D4
TP3522	C3
TP3523	C3


D
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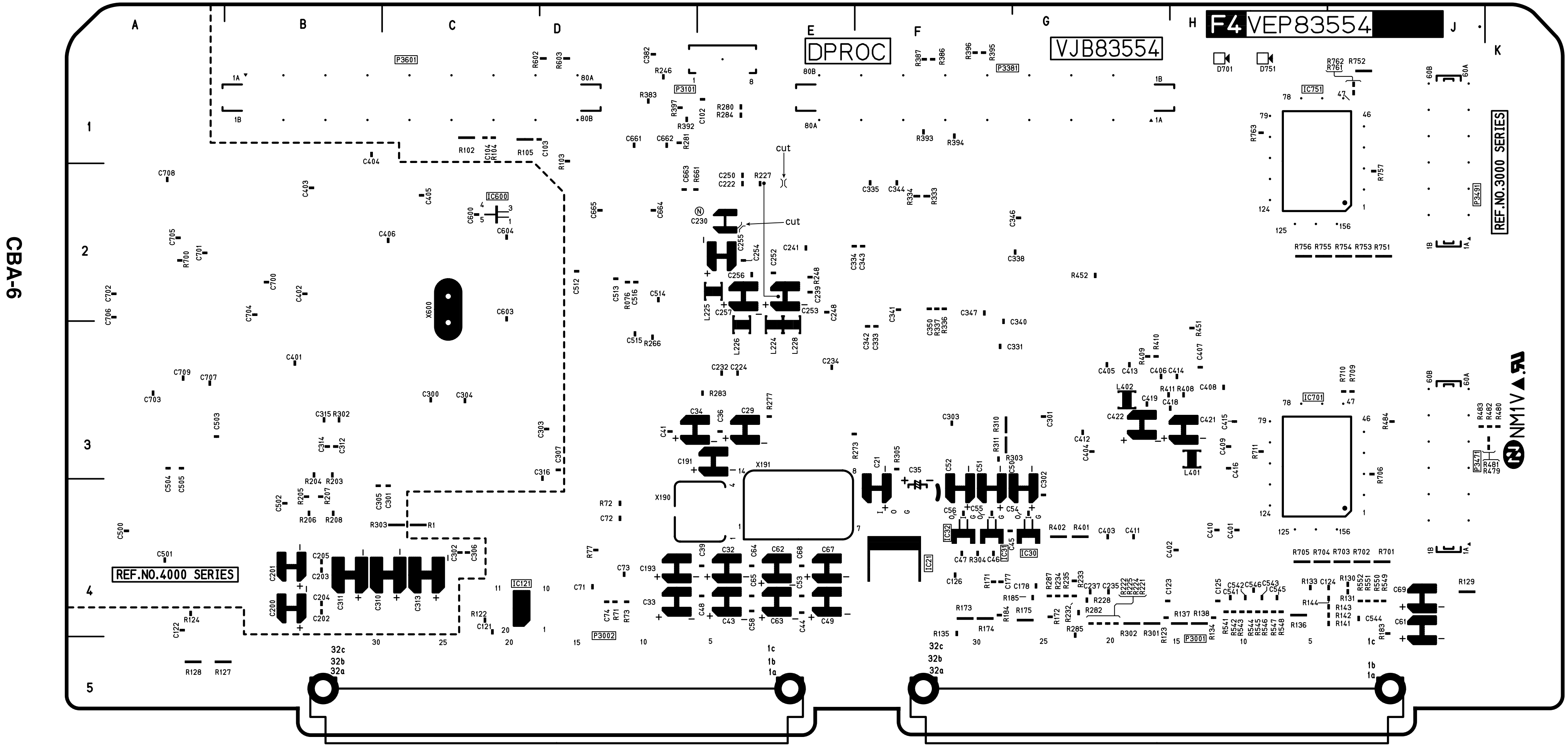
BLACK SDI INPUT
SOUT1 ORANGE
YELLOW SOUT2
GREEN SOUT3
RED SDI THROU
J3200
J3401
J3400
J3500
J3201
IC3200
IC3202
IC3205
IC3404
IC3506
QR3200
IC3504
IC3501
IC3500
IC3103
IC3102
IC3104
IC3105
IC3505
IC3000
TP3521
P3000
SDI

(FOIL SIDE)

F4 D PROC P.C.BOARD (VEP83554A)

COMPONENT SIDE

REF	LOC	REF	LOC
IC3021	F4	P3002	D5
IC3030	G4	P3101	E1
IC3031	F4	P3381	F1
IC3032	F4	P3471	J3
IC3121	C4	P3491	J1
IC3701	H3	P3601	C1
IC3751	H1		
IC4600	C2		
P3001	H5		


CBA-6
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DPROC
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IC751
IC21
IC30
IC31
IC32
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X191
P3601
P3101
P3381
P3491
P3471
P3002
P3001
D701
D751
32c
32b
32a
1c
1b
1a

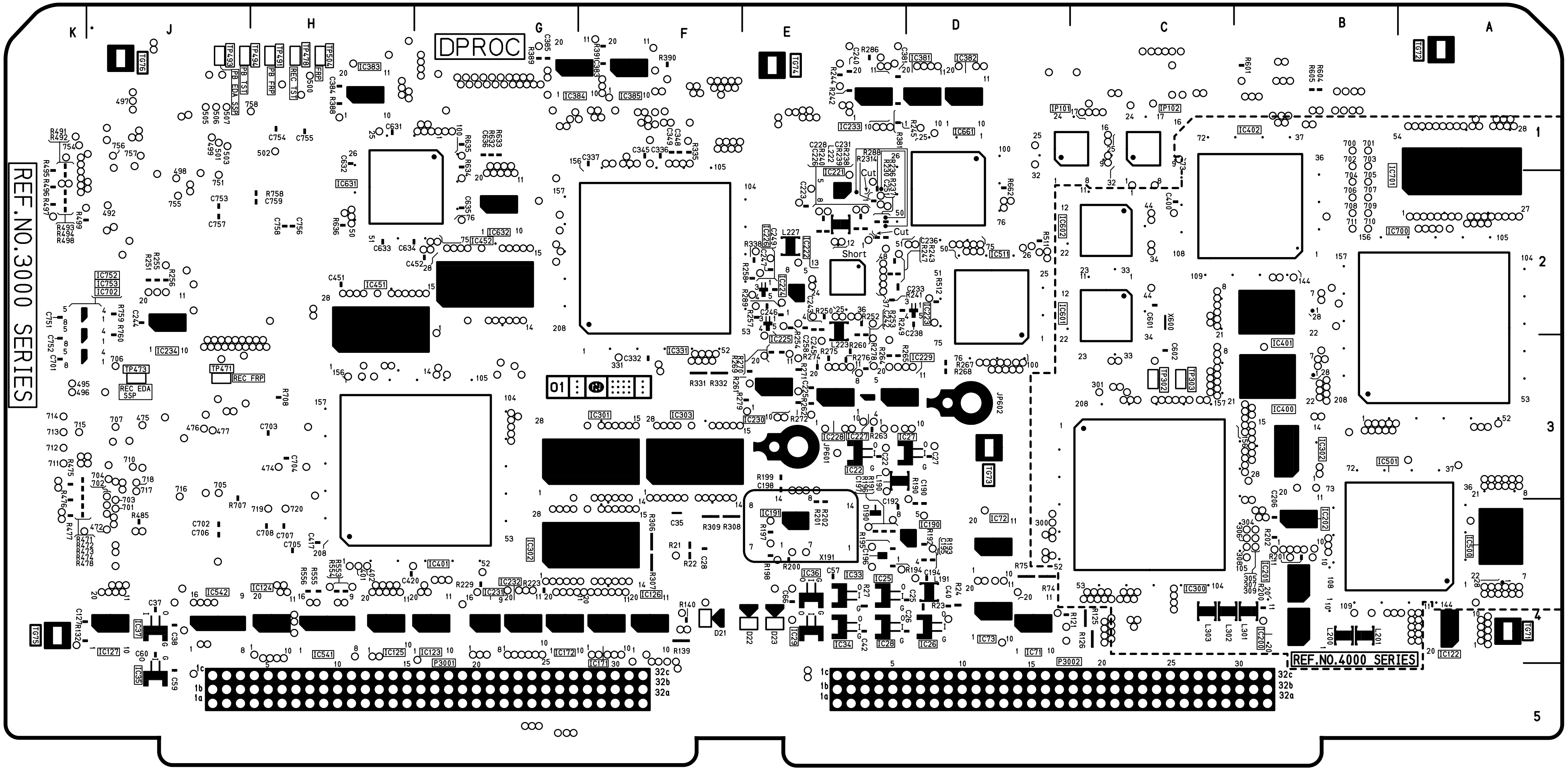
(COMPONENT SIDE)

F4 D PROC P.C.BOARD (VEP83554A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3022	E3	IC3036	E4	IC3126	F4	IC3223	D2	IC3233	E1	IC3383	H1	IC3631	H2	IC4302	B3	IC4701	A2	TG3074	E1	TP3504	H1
IC3025	E4	IC3037	J4	IC3127	J4	IC3224	E2	IC3290	E3	IC3384	F1	IC3632	G2	IC4400	B3	IC4900	C4	TG3075	K4	TP4302	C3
IC3026	D4	IC3071	D4	IC3129	G4	IC3225	E2	IC3294	J2	IC3385	F1	IC3661	D2	IC4401	B2	IP3101	D1	TG3076	J1	TP4303	C3
IC3027	E3	IC3072	A1	IC3171	F4	IC3226	E2	IC3301	F3	IC3401	G3	IC3702	K3	IC4402	B2	IP3102	C1	TP3471	J3		
IC3028	E4	IC3072	D4	IC3172	G4	IC3227	E3	IC3302	F4	IC3451	H2	IC3752	K2	IC4500	A4	P3001	G5	TP3473	J3		
IC3029	E4	IC3073	D4	IC3190	D4	IC3228	E3	IC3303	F3	IC3452	H2	IC3759	K2	IC4501	B4	P3002	D5	TP3478	H1		
IC3033	E4	IC3122	A5	IC3191	E4	IC3229	E3	IC3331	F2	IC3511	D2	IC4200	B5	IC4601	C2	TG3071	A4	TP3491	H1		
IC3034	E4	IC3124	H4	IC3221	E2	IC3231	G4	IC3381	D1	IC3541	H4	IC4201	B5	IC4602	C2	TG3072	A1	TP3493	J1		
IC3035	J5	IC3125	H4	IC3222	E2	IC3232	G4	IC3382	D1	IC3542	J4	IC4202	B5	IC4700	A2	TG3073	D3	TP3494	J1		

CBA-7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DPROC
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REF.NO.4000 SERIES
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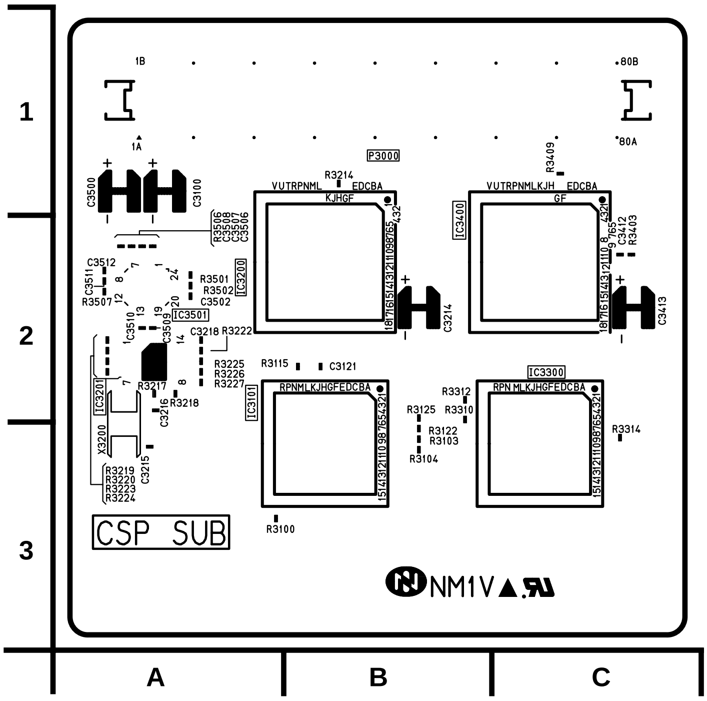
IC303
IC401
IC400
IC501
IC700
IC451
IC452
IC631
IC632
P3001
P3002
JP601
JP602
X191
Short
Cut
1a
1b
1c
32a
32b
32c

(FOIL SIDE)

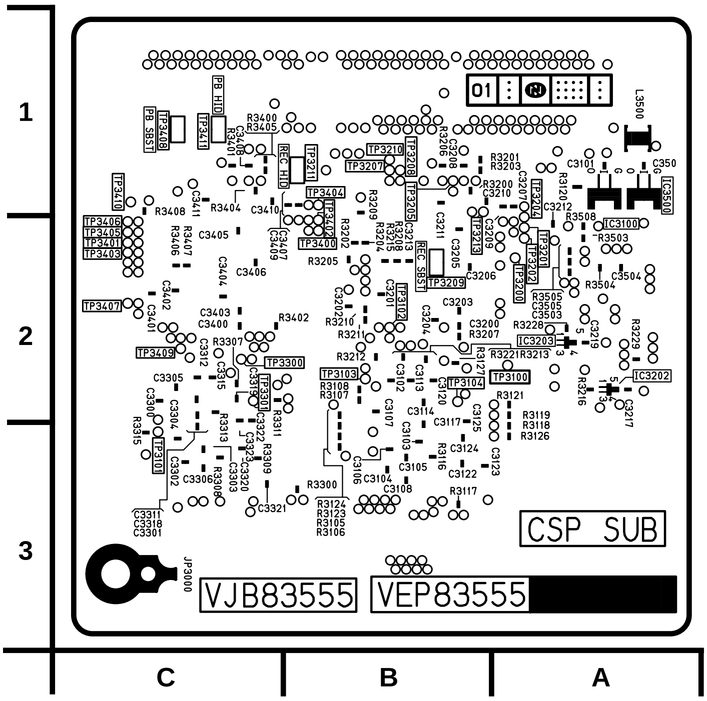
CSP SUB P.C. BOARD (VEP83555A)

COMPONENT SIDE

REF	LOC
IC3101	B3
IC3200	B2
IC3201	A2
IC3300	C3
IC3400	C2
IC3501	A2
P3000	B1



(COMPONENT SIDE)



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FOIL SIDE

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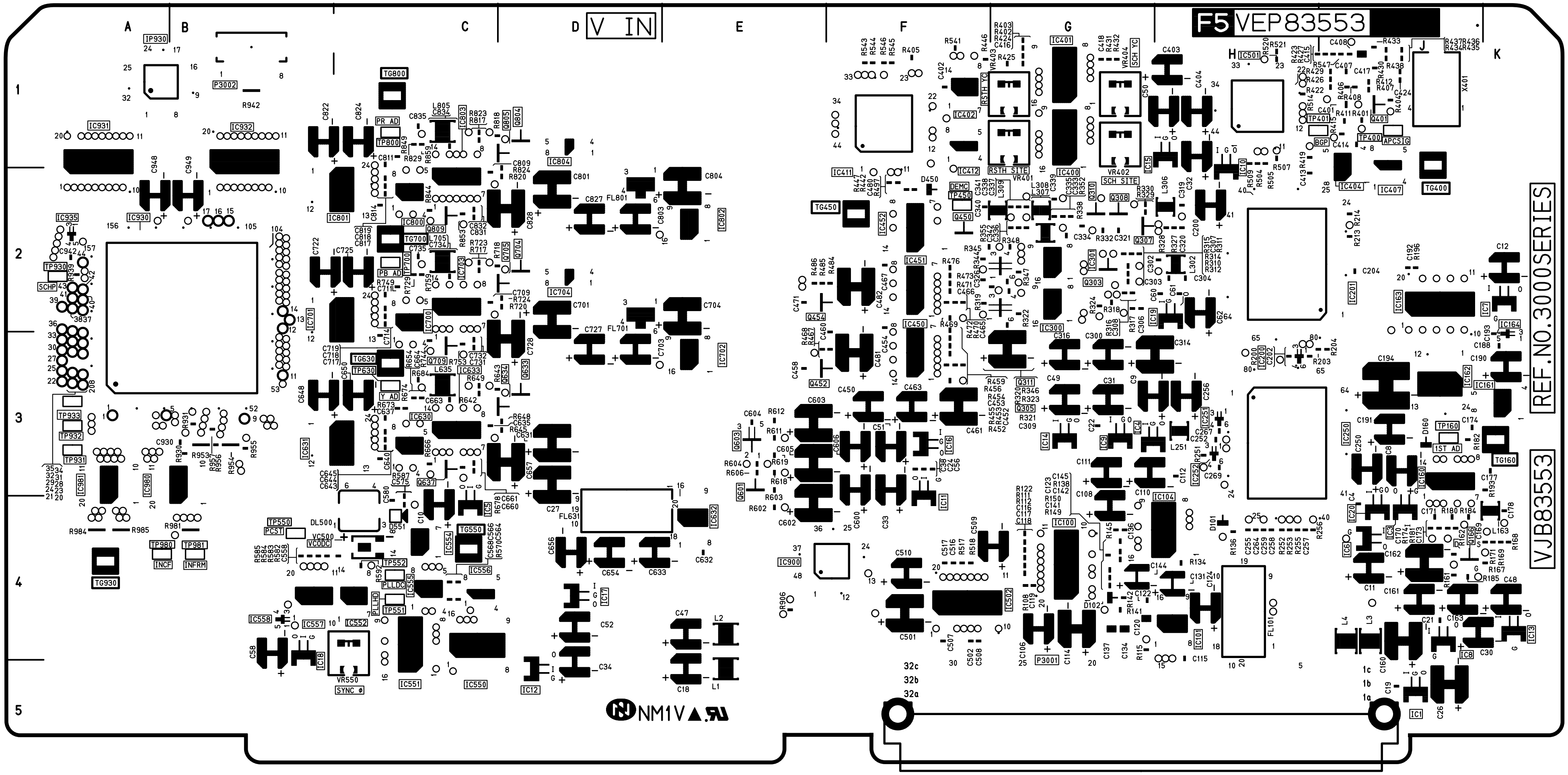
IC3202	A2
IC3203	A2
IC3204	A1
IC3500	A1
TP3100	A2
TP3101	C3
TP3102	B2
TP3103	B2
TP3104	B2
TP3200	A2
TP3201	A2
TP3202	A2
TP3204	A1
TP3205	B1
TP3207	B1
TP3208	B1
TP3209	B2
TP3210	B1
TP3211	B1
TP3213	B1
TP3300	C2
TP3301	C2
TP3400	B2
TP3401	C2
TP3402	B2
TP3403	C2
TP3404	B1
TP3405	C2
TP3406	C2
TP3407	C2
TP3408	C1
TP3409	C2
TP3410	C1
TP3411	C1

F5 V IN P.C. BOARD (VEP83553A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3001	J5	IC3011	F3	IC3020	J4	IC3200	H3	IC3402	F1	IC3502	F4	IC3631	C3	IC3802	E2	IP3930	A1	Q3311	G3	Q3637	C3	TG3450	F2	TP3450	F2	TP3933	A3
IC3003	J4	IC3012	D5	IC3100	G4	IC3201	H2	IC3404	J1	IC3550	C4	IC3632	E4	IC3803	C2	P3001	G5	Q3401	J1	Q3704	D2	TG3550	C4	TP3550	B4	TP3980	A4
IC3004	G3	IC3013	K4	IC3101	H4	IC3250	H3	IC3407	J1	IC3551	C4	IC3633	C3	IC3804	D1	P3002	B1	Q3450	F2	Q3705	D2	TG3630	C3	TP3551	C4	TP3981	B4
IC3005	C4	IC3014	G3	IC3104	H4	IC3251	H3	IC3411	F1	IC3554	C4	IC3700	C2	IC3900	F4	Q3166	J4	Q3452	E3	Q3709	C3	TG3700	C2	TP3552	C4	VC3500	C4
IC3006	J4	IC3015	H1	IC3160	J3	IC3252	H3	IC3412	F1	IC3555	C4	IC3702	E3	IC3931	A1	Q3303	G2	Q3504	E2	Q3804	D1	TG3800	C1	TP3603	C3	VR3401	G1
IC3007	K2	IC3016	F3	IC3161	K3	IC3300	G2	IC3450	F3	IC3556	C4	IC3703	C2	IC3932	B1	Q3305	G3	Q3601	E3	Q3805	D1	TG3930	A4	TP3700	C2	VR3402	G1
IC3008	J4	IC3017	D4	IC3162	J3	IC3301	G2	IC3451	F2	IC3557	B4	IC3704	D2	IC3935	A2	Q3307	G2	Q3603	E3	Q3809	C2	TP3160	J3	TP3800	C1	VR3403	G1
IC3009	G3	IC3018	B4	IC3163	J2	IC3400	G1	IC3452	F2	IC3558	B4	IC3800	C2	IC3980	B3	Q3308	G2	Q3633	D3	TG3160	K3	TP3400	J1	TP3931	A3	VR3404	G1
IC3010	H1	IC3019	H2	IC3164	K2	IC3401	G1	IC3501	H1	IC3630	C3	IC3801	C2	IC3981	A3	Q3310	G2	Q3634	D3	TG3400	J1	TP3401	J1	TP3932	A3	VR3550	C4

CBA-9



(COMPONENT SIDE)

F5 V IN P.C.BOARD (VEP83553A)

FOIL SIDE

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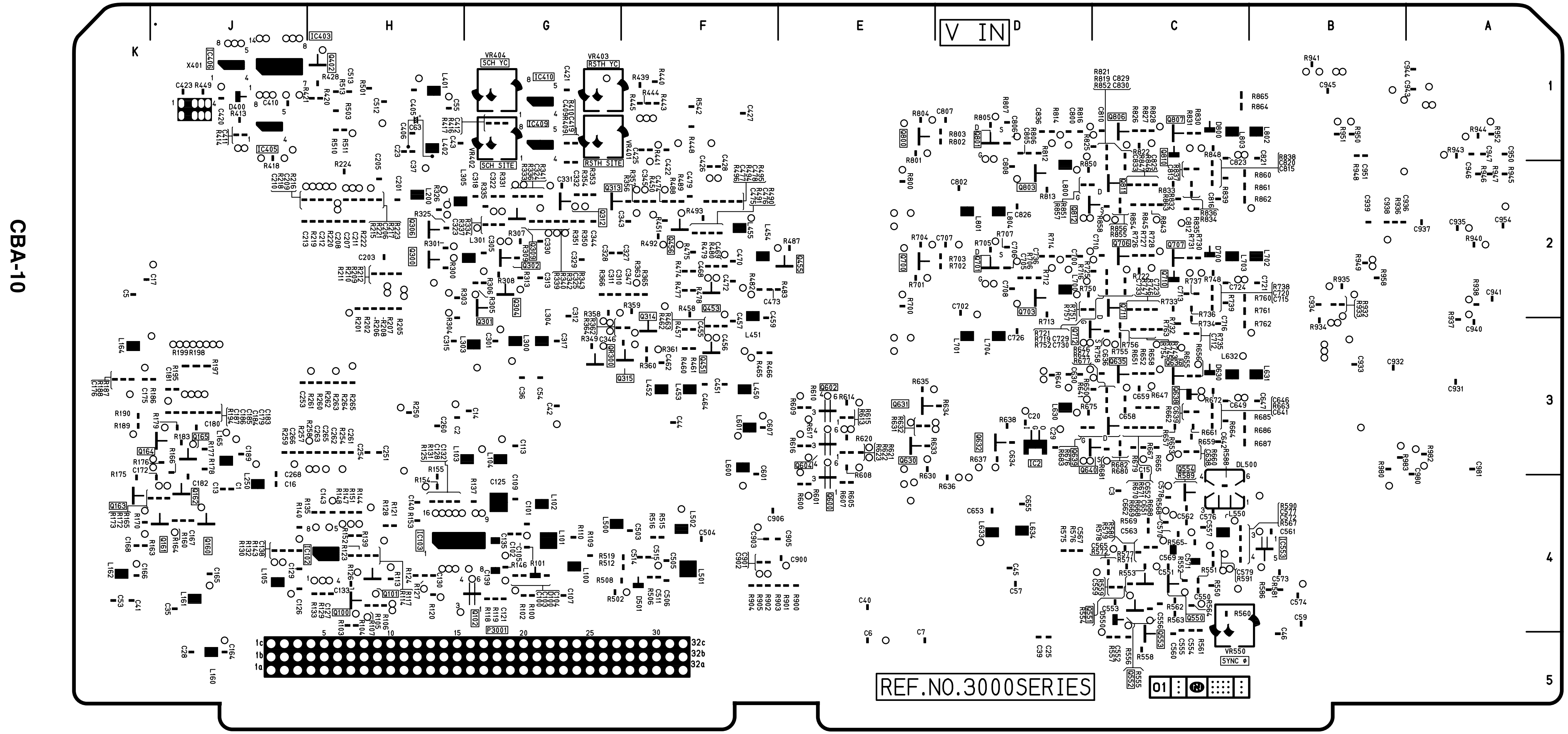
IC3002	D3	P3001	G5	Q3165	J3	Q3314	F3	Q3552	C4	Q3635	C3	Q3710	C2	Q3811	C2
IC3102	H4	Q3100	H4	Q3300	H2	Q3315	F3	Q3553	C5	Q3638	C3	Q3711	C2	Q3812	D2
IC3103	H4	Q3101	H4	Q3301	G2	Q3402	H1	Q3554	C4	Q3639	C3	Q3712	D3	QR3300	G3
IC3403	J1	Q3102	G4	Q3302	G2	Q3451	F3	Q3600	E4	Q3640	D3	Q3800	E1	VR3401	G1
IC3405	J1	Q3160	J4	Q3304	G2	Q3453	F2	Q3602	E3	Q3700	E2	Q3801	D1	VR3402	G1
IC3406	J1	Q3161	J4	Q3306	H2	Q3455	E2	Q3604	E3	Q3701	D2	Q3803	D2	VR3403	G1
IC3409	G1	Q3162	J4	Q3309	G2	Q3456	F2	Q3630	E3	Q3703	D2	Q3806	C1	VR3404	G1
IC3410	G1	Q3163	K4	Q3312	G2	Q3550	C4	Q3631	E3	Q3706	C2	Q3807	C1	VR3550	C4
IC3553	B4	Q3164	J3	Q3313	G2	Q3551	C4	Q3632	D3	Q3707	C2	Q3810	C1		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SCH SITE
VR403
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RSTH SITE
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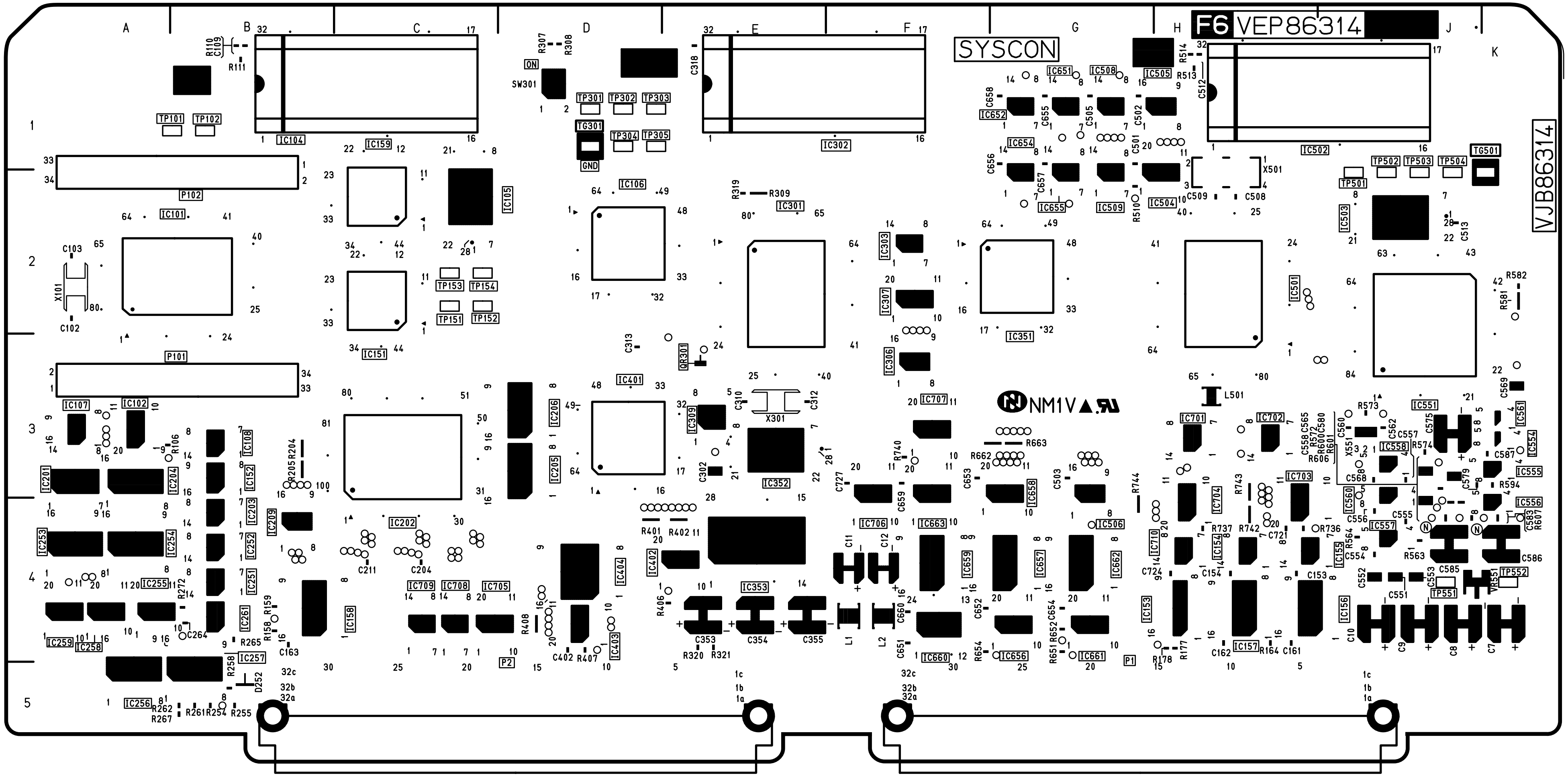
(FOIL SIDE)

F6 SYSCON P.C. BOARD (VEP86314A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC101	B2	IC153	H4	IC203	B4	IC255	A4	IC306	F3	IC404	D4	IC551	J3	IC652	G1	IC662	G4	IC708	C4	TG501	K1	TP303	D1	VR551	K4
IC102	A3	IC154	H4	IC204	A3	IC256	A5	IC307	F2	IC501	H2	IC554	K3	IC654	G1	IC663	F3	IC709	C4	TP101	B1	TP304	D1		
IC104	C1	IC155	H4	IC205	D3	IC257	B5	IC309	E3	IC502	H1	IC555	K3	IC655	G1	IC701	H3	IC710	H4	TP102	B1	TP305	D1		
IC105	C2	IC156	H4	IC206	D3	IC258	A4	IC351	G2	IC503	J2	IC556	K3	IC656	G4	IC702	H3	P1	G5	TP151	C2	TP501	J1		
IC106	D2	IC157	H4	IC209	B4	IC259	A4	IC352	E3	IC504	H2	IC557	J4	IC657	G4	IC703	H3	P2	D5	TP152	C2	TP502	J1		
IC107	A3	IC158	B4	IC251	B4	IC261	B4	IC353	E4	IC505	H1	IC558	J3	IC658	G3	IC704	H3	P101	B3	TP153	C2	TP503	J1		
IC108	B3	IC159	C2	IC252	B4	IC301	E2	IC401	D3	IC506	G3	IC560	J3	IC659	F4	IC705	C4	P102	B2	TP154	C2	TP504	J1		
IC151	C2	IC201	A3	IC253	A4	IC302	E1	IC402	E4	IC508	G1	IC561	K3	IC660	F4	IC706	F3	QR301	E3	TP301	D1	TP551	J4		
IC152	B3	IC202	C3	IC254	A4	IC303	F2	IC403	D4	IC509	G1	IC651	G1	IC661	G4	IC707	F3	TG301	D1	TP302	D1	TP552	J4		

CBA-11



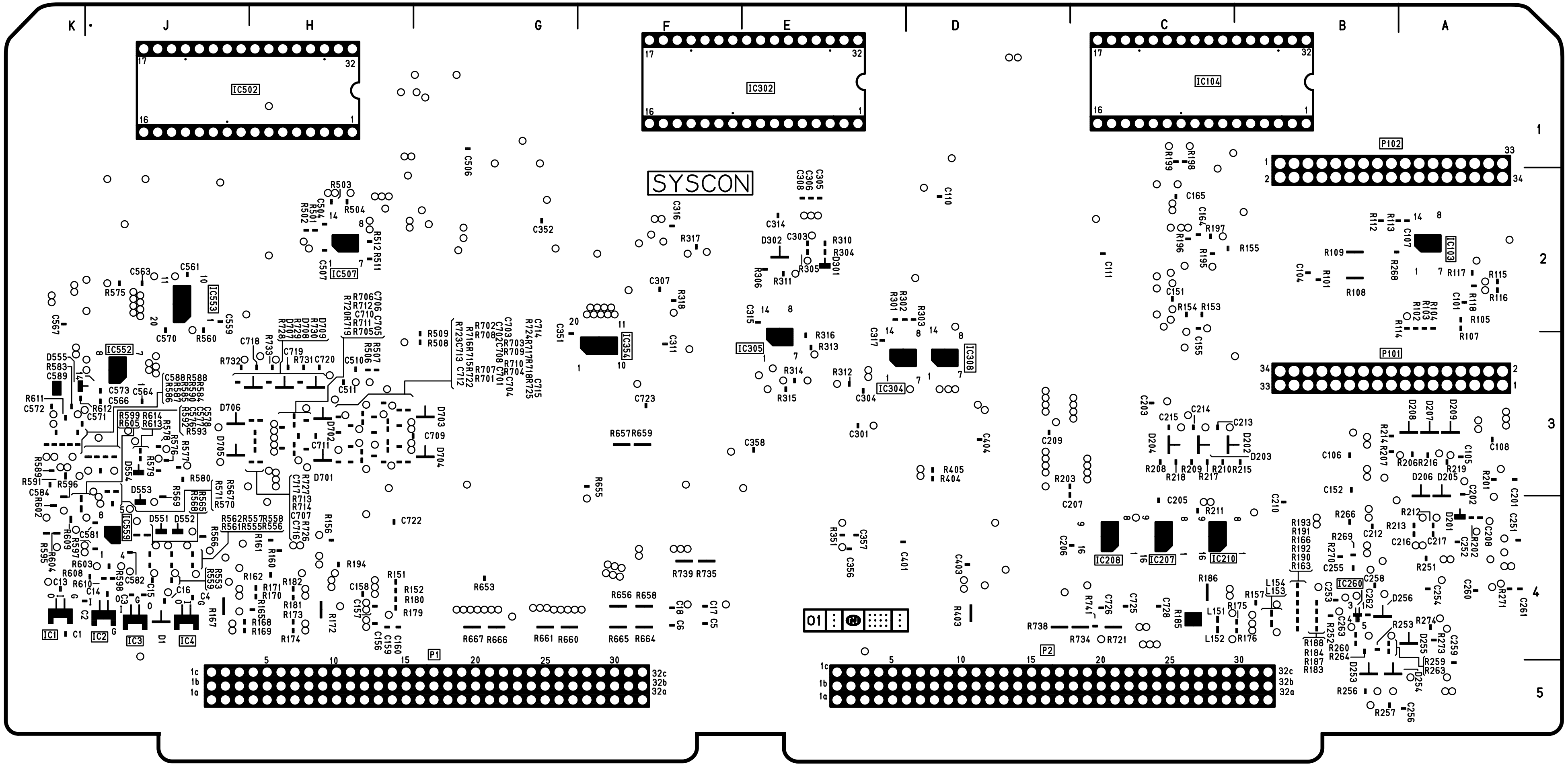
(COMPONENT SIDE)

F6 SYSCON P.C. BOARD (VEP86314A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC
IC1	K4	IC260	B4	IC553	J2
IC2	J4	IC302	E1	IC559	J4
IC3	J4	IC304	E3	P1	G5
IC4	J4	IC305	E3	P2	D5
IC103	A2	IC308	D3	P101	B3
IC104	C1	IC354	F3	P102	B1
IC207	C4	IC502	H1		
IC208	C4	IC507	H2		
IC210	C4	IC552	J3		

CBA-12



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IC502
IC302
IC104
SYSCON
P102
P101
IC507
IC553
IC552
IC559
IC354
IC305
IC304
IC308
IC103
IC208
IC207
IC210
IC260
IC1
IC2
IC3
IC4
P1
P2

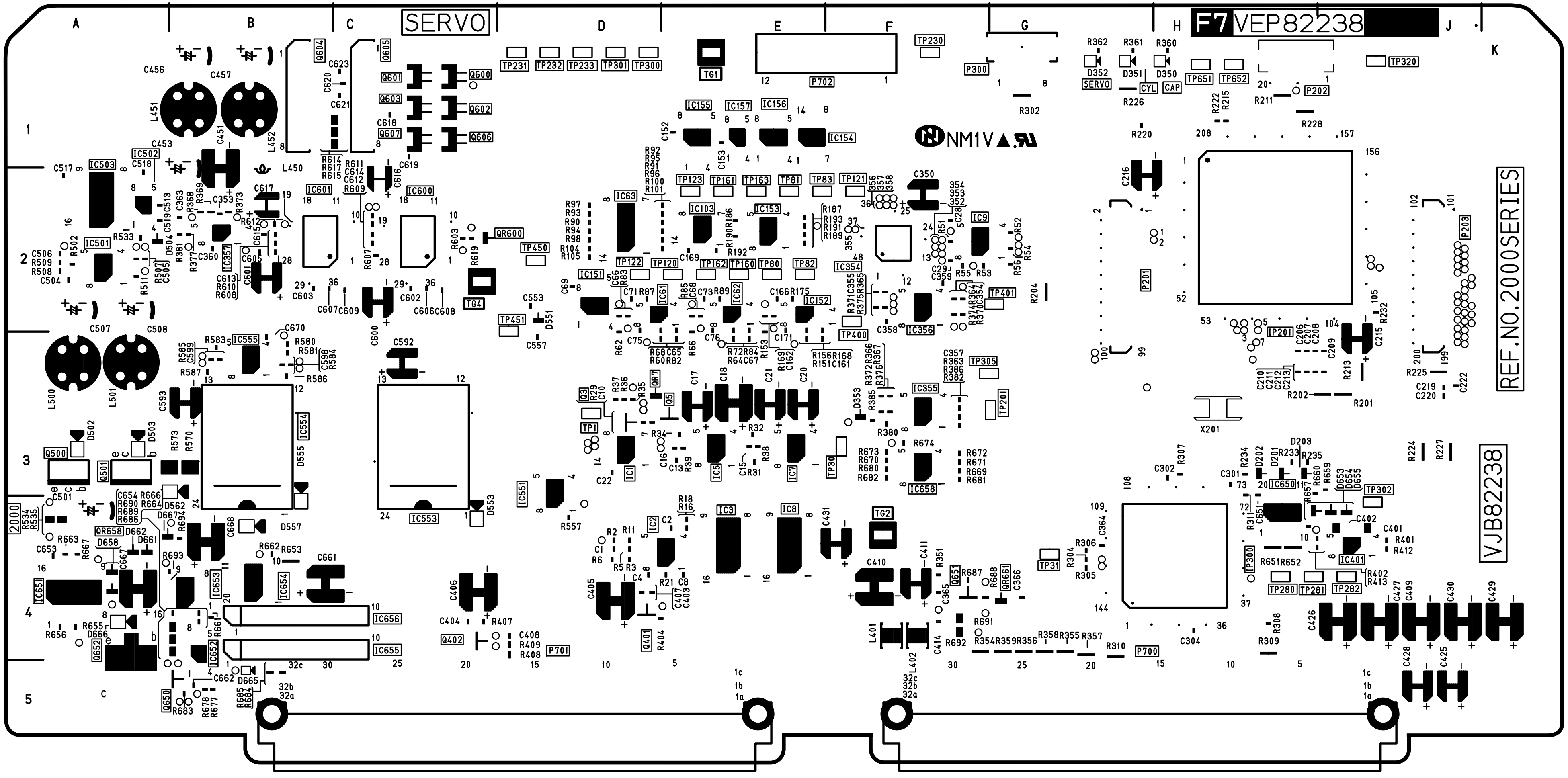
(FOIL SIDE)

F7 SERVO P.C. BOARD (VEP82238A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2001	D3	IC2063	D2	IC2354	F2	IC2554	B3	IC2655	C4	P2700	G5	Q2600	C1	Q2651	F4	TP2001	D3	TP2122	D2	TP2232	D1	TP2320	J1
IC2002	E4	IC2103	E2	IC2356	F2	IC2555	B3	IC2656	C4	P2701	D5	Q2601	C1	Q2652	A4	TP2030	F3	TP2123	E2	TP2233	D1	TP2400	F2
IC2003	E4	IC2151	D2	IC2357	B2	IC2600	C2	IC2658	F3	P2702	E1	Q2602	C1	QR2007	D3	TP2031	G4	TP2160	E2	TP2280	H4	TP2401	G2
IC2005	E3	IC2152	E2	IC2401	J4	IC2601	B2	IP2201	H2	Q2003	D3	Q2603	C1	QR2600	C2	TP2080	E2	TP2161	E2	TP2281	H4	TP2450	D2
IC2007	E3	IC2153	E2	IC2501	A2	IC2650	H3	IP2300	H4	Q2005	E3	Q2604	B1	QR2658	A4	TP2081	E2	TP2162	E2	TP2282	J4	TP2451	D2
IC2008	E4	IC2154	E1	IC2502	A2	IC2651	A4	P2201	G2	Q2401	D4	Q2605	C1	QR2661	G4	TP2082	E2	TP2163	E2	TP2300	D1	TP2651	H1
IC2009	F2	IC2155	E1	IC2503	A2	IC2652	B4	P2202	H1	Q2402	C4	Q2606	C1	TG2001	E1	TP2083	E2	TP2201	G3	TP2301	D1	TP2652	H1
IC2061	D2	IC2156	E1	IC2551	D3	IC2653	B4	P2203	J2	Q2500	A3	Q2607	C1	TG2002	F4	TP2120	E2	TP2230	F1	TP2302	J4		
IC2062	E2	IC2157	E1	IC2553	C3	IC2654	B4	P2300	G1	Q2501	A3	Q2650	B5	TG2004	C2	TP2121	F2	TP2231	D1	TP2305	G3		

CBA-13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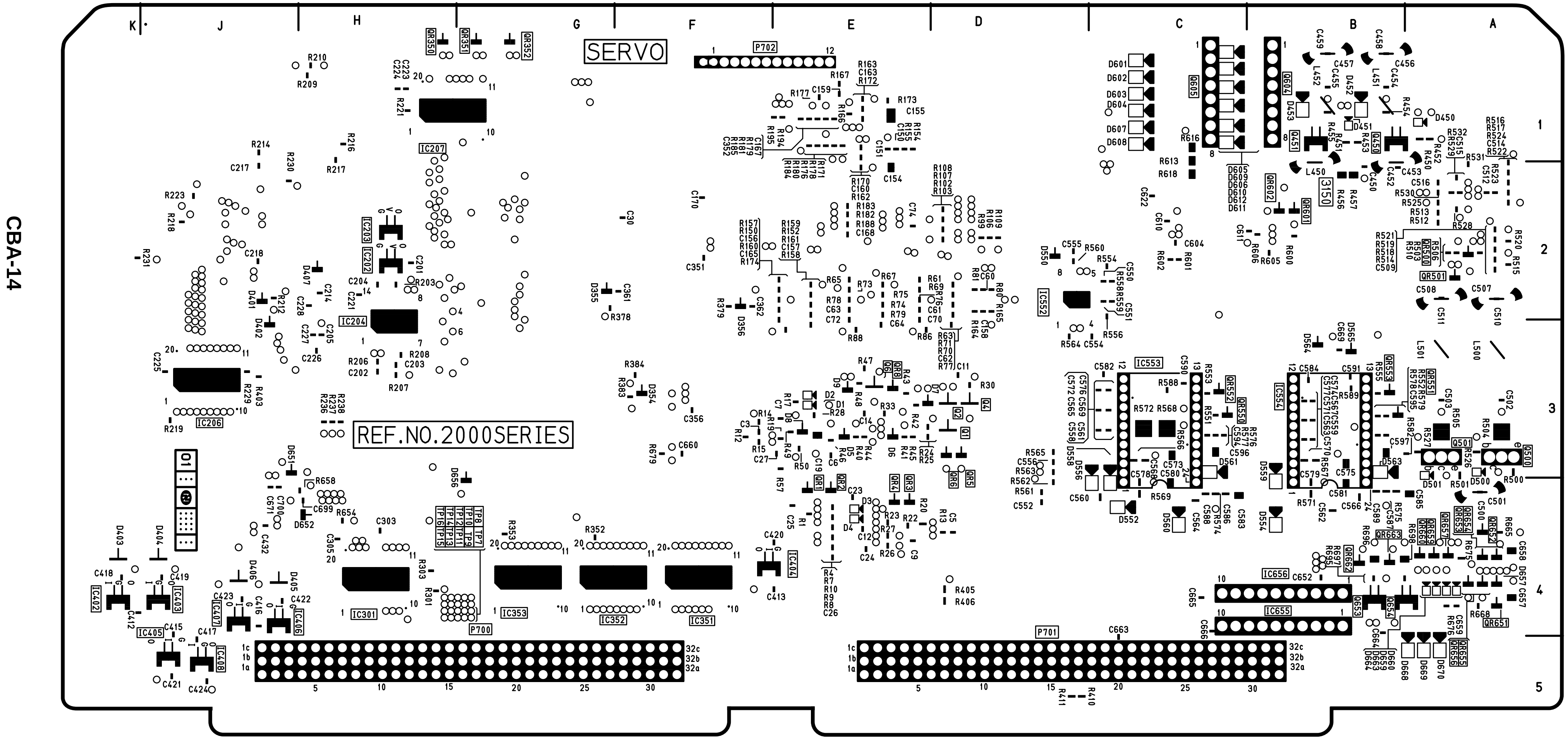
Q652
QR600
QR658
QR661
D352
D351
D350
SERVO
CYL
CAP
2000

(COMPONENT SIDE)

F7 SERVO P.C. BOARD (VEP82238A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2202	H2	IC2402	K4	IC2554	B3	Q2450	B1	QR2002	E4	QR2500	A2	QR2652	A4	QR2663	B4	TP2015	H4
IC2203	H2	IC2403	J4	IC2655	B4	Q2451	B1	QR2003	E4	QR2501	A2	QR2653	A4	TP2007	G4	TP2016	H4
IC2204	H2	IC2404	E4	IC2656	B4	Q2500	A3	QR2004	E4	QR2550	C3	QR2654	A4	TP2008	G4		
IC2206	J3	IC2405	J5	P2701	D5	Q2501	A3	QR2005	D3	QR2551	B3	QR2655	A4	TP2009	G4		
IC2207	H1	IC2406	J4	P2702	F1	Q2604	B1	QR2006	D3	QR2552	C3	QR2656	A4	TP2010	G4		
IC2301	H4	IC2407	J4	Q2001	D3	Q2605	C1	QR2006	E3	QR2553	B3	QR2657	A4	TP2011	G4		
IC2351	F4	IC2408	J5	Q2002	D3	Q2653	B4	QR2350	H1	QR2601	B2	QR2659	A4	TP2012	G4		
IC2352	F4	IC2552	D2	Q2004	D3	Q2654	A4	QR2351	G1	QR2602	B2	QR2660	A4	TP2013	H4		
IC2353	G4	IC2553	C3	Q2006	E3	QR2001	E4	QR2352	G1	QR2651	A4	QR2662	B4	TP2014	H4		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IC407
IC408
IC552
IC553
IC554
IC655
IC656
Q605
Q604
Q450
Q451
Q500
Q501
Q653
Q654

(FOIL SIDE)

RF CUE P.C. BOARD (VEP85197A)

COMPONENT SIDE

REF	LOC	REF	LOC
IC4001	C2	Q5007	C4
IC4002	A1	Q5008	C4
IC4005	D2	Q5011	B4
IC4006	D2	Q5012	B4
IC5001	D2	Q5013	B4
IC5002	C2	Q5014	B3
IC5003	C2	Q5101	A3
IC5004	C3	Q5102	A3
IC5005	C3	Q5103	A3
IC5006	B3	Q5111	A4
IC5007	C3	Q5116	A4
IC5012	A3	Q5117	A4
IC5101	A2	Q5121	A4
IC5103	A3	Q5126	A4
IC5104	A3	Q5127	A4
IC5201	C3	Q5202	B3
IC5202	B3	Q5203	B3
IC5203	B3	Q5204	B3
IC5252	B2	Q5251	B2
IC5253	B2	Q5252	B2
IC5301	D3	Q5253	B2
IC5302	D4	Q5254	B2
IC5303	D4	QR5001	C4
P4001	A1	T4001	C2
P5001	E2	TG4001	A1
P5002	A3	TG5001	B4
P5003	A2	TG5002	A2
Q5001	C3	TP4002	A1
Q5002	C4	TP4003	A1
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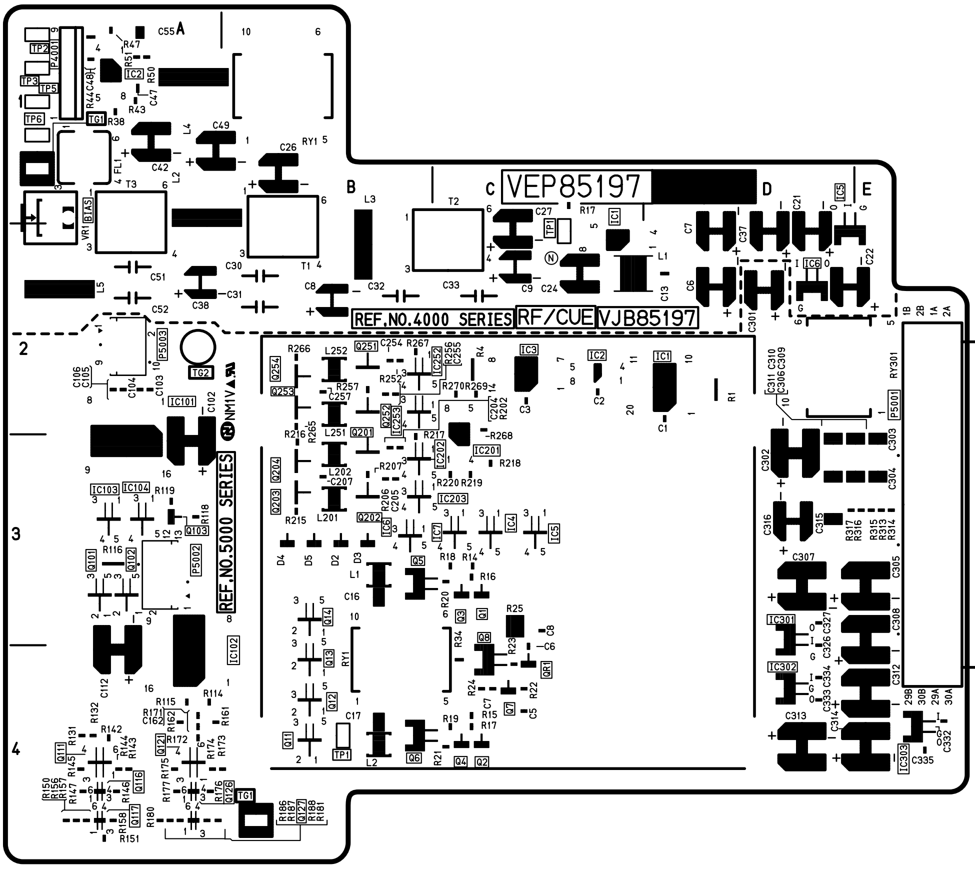
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VJB85197
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T3
RY1
RY301
FL1
VR1
BIAS

(COMPONENT SIDE)

FOIL SIDE

REF	LOC	REF	LOC
IC4003	D2	QR4007	A2
IC4004	D2	QR4008	A1
IC4007	D2	QR4009	A1
P4001	A1	QR4010	B2
P5001	E3	QR5002	B3
Q4001	B2	QR5003	C3
Q4002	A1	QR5004	C3
Q4003	A1	QR5101	A4
Q4004	C2	QR5201	B3
Q4005	C1	QR5251	B2
Q4006	A1	QR5301	D2
Q4008	A1	TG5002	A2
Q4009	B2	VR4001	A1
Q4010	A2		
Q4011	A2		
Q5009	C3		
Q5010	C4		
Q5112	A4		
Q5113	A4		
Q5114	A4		
Q5115	A4		
Q5122	A4		
Q5123	A4		
Q5124	A4		
Q5125	A4		
Q5301	D2		
Q5302	D2		
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QR4003	B2		
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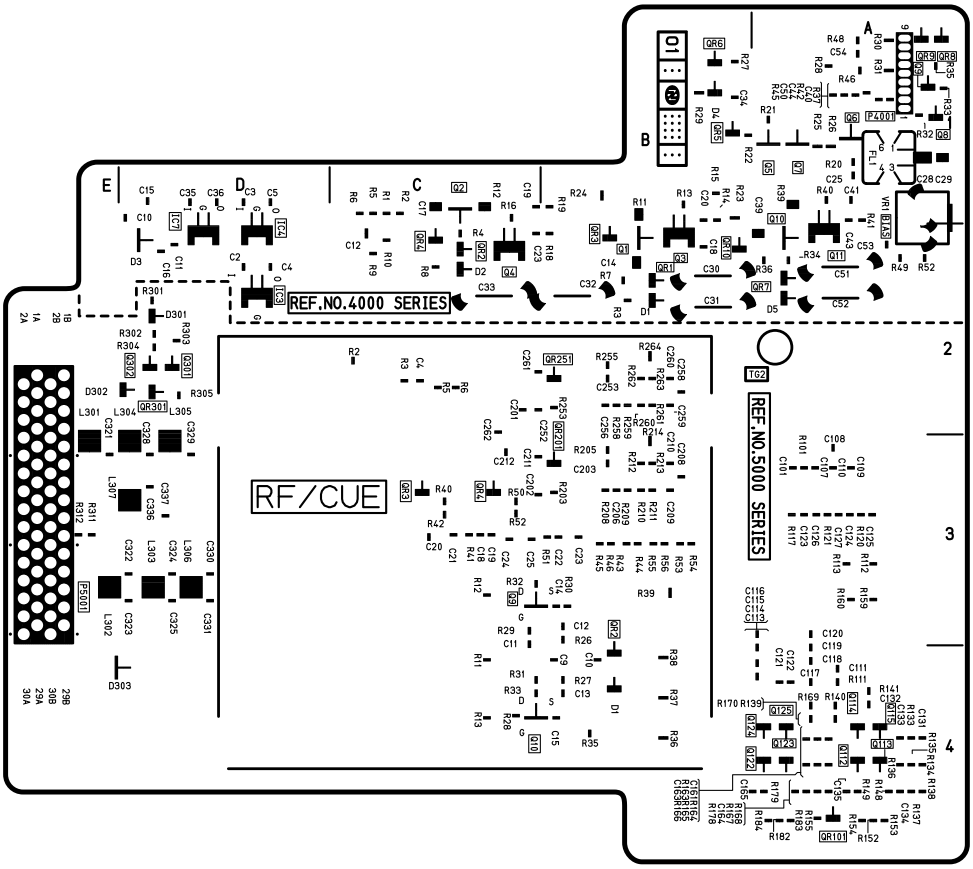
QR4006	B1		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(FOIL SIDE)

F8 RF EQ P.C. BOARD (VEP85196A)

COMPONENT SIDE

REF	LOC	REF	LOC
IC5001	D3	Q5405	B3
IC5002	C3	Q5408	B3
IC5003	C2	Q5411	B3
IC5004	D3	Q5412	B3
IC5005	C4	Q5413	B2
IC5007	C4	Q5415	B3
IC5009	C4	QR5201	A3
IC5010	C4	TG5001	B5
IC5101	B4	TG5002	D3
IC5103	B3	TG5003	B1
IC5104	B2	TG5004	B2
IC5105	C1	TP5001	D1
IC5108	B2	TP5002	C1
IC5110	A2	TP5003	C3
IC5201	A3	TP5005	B3
IC5202	A3	TP5006	A1
IC5203	A2	TP5007	A2
IC5401	B4	TP5008	C1
IC5403	B3	TP5009	C1
IC5404	B2	TP5010	B2
IC5405	D1	TP5015	C3
IC5408	C2	TP5016	B1
P5001	B5	TP5018	D1
Q5105	B3	TP5019	D1
Q5108	B3	TP5020	C2
Q5111	B3	TP5301	C1
Q5112	A3	TP5302	C1
Q5113	A2	TP5303	C1
Q5115	B3	TP5304	B2
Q5201	A3	TP5305	A2
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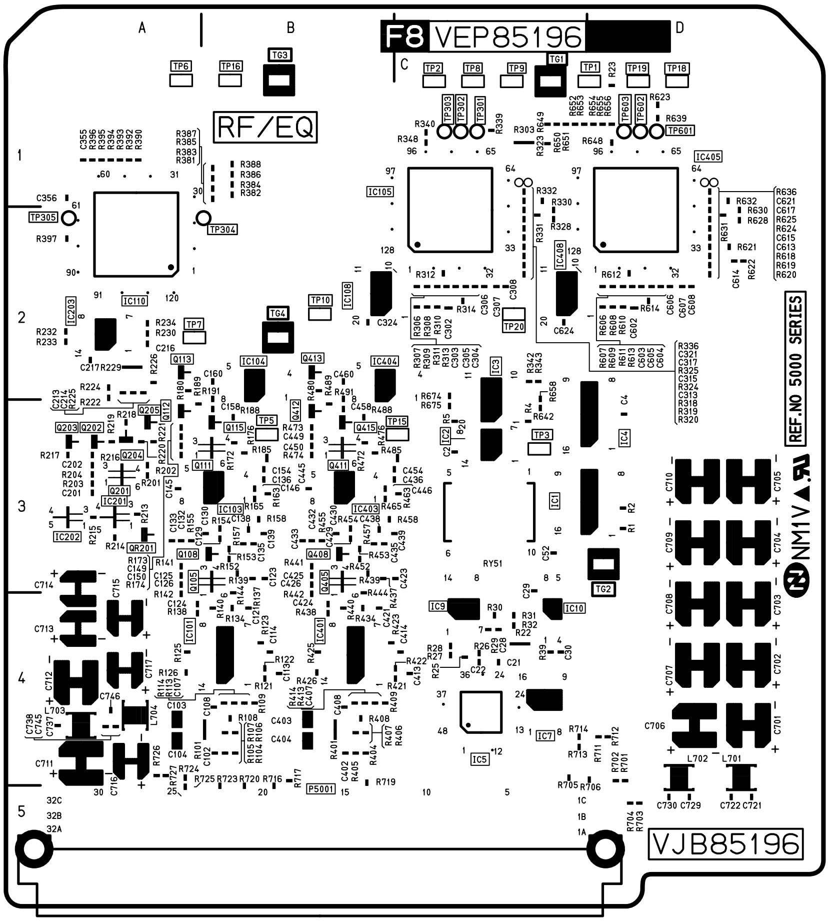
Q5203	A3	TP5602	D1
Q5204	A3	TP5603	D1
Q5205	A3		



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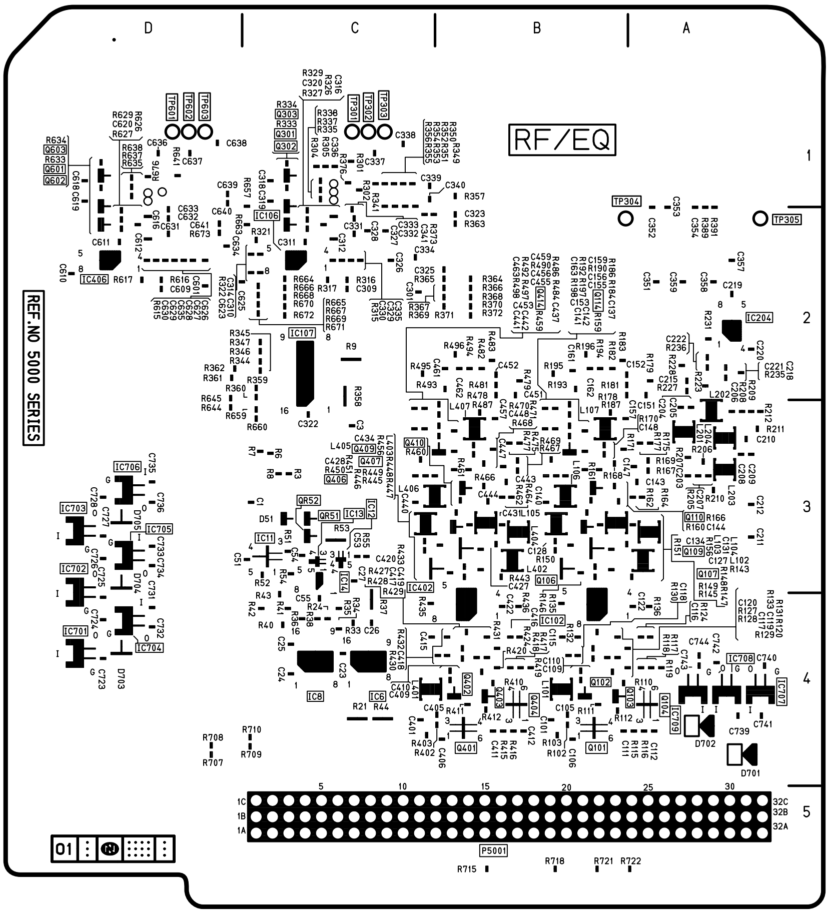

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FOIL SIDE

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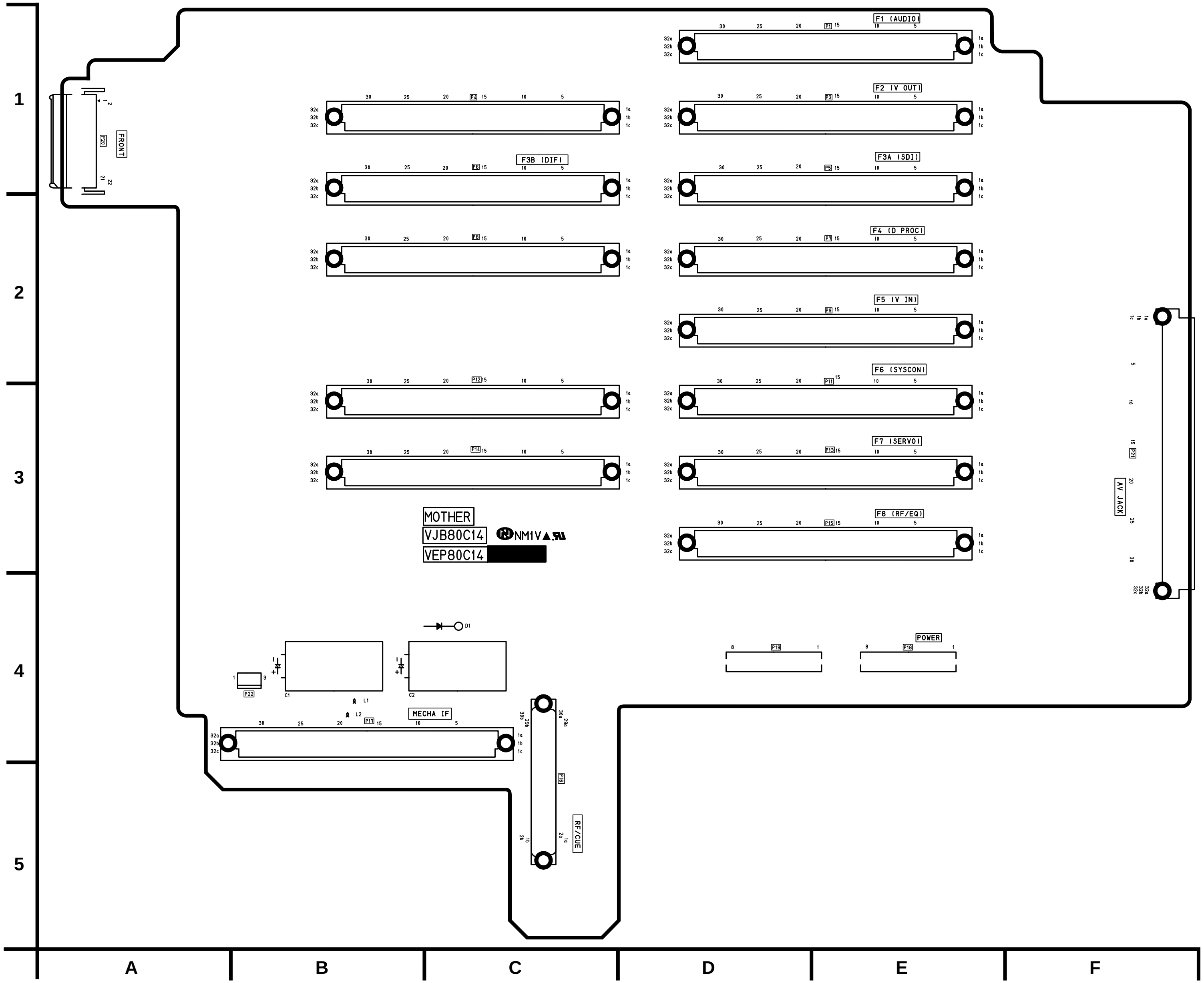
IC5011	C3	Q5403	B4
IC5012	C3	Q5404	B4
IC5013	C3	Q5406	C3
IC5014	C3	Q5407	C3
IC5102	B4	Q5409	C3
IC5106	C2	Q5410	B3
IC5107	C2	Q5414	B3
IC5204	A1	Q5601	D1
IC5402	B4	Q5602	D2
IC5406	D2	Q5603	D1
IC5701	D4	QR5051	C3
IC5702	D3	QR5052	C3
IC5703	D3	TP5301	C1
IC5704	D4	TP5302	C1
IC5705	D3	TP5303	C1
IC5706	D3	TP5304	B1
IC5707	A4	TP5305	A1
IC5708	A4	TP5601	D1
IC5709	A4	TP5602	D1
P5001	B5	TP5603	D1
Q5101	B4		
Q5102	B4		
Q5103	B4		
Q5104	A4		
Q5106	B3		
Q5107	B3		
Q5109	B3		
Q5110	B3		
Q5114	B3		
Q5301	C1		
Q5302	C2		
Q5303	C1		

MOTHER P.C. BOARD (VEP80C14A)

COMPONENT SIDE

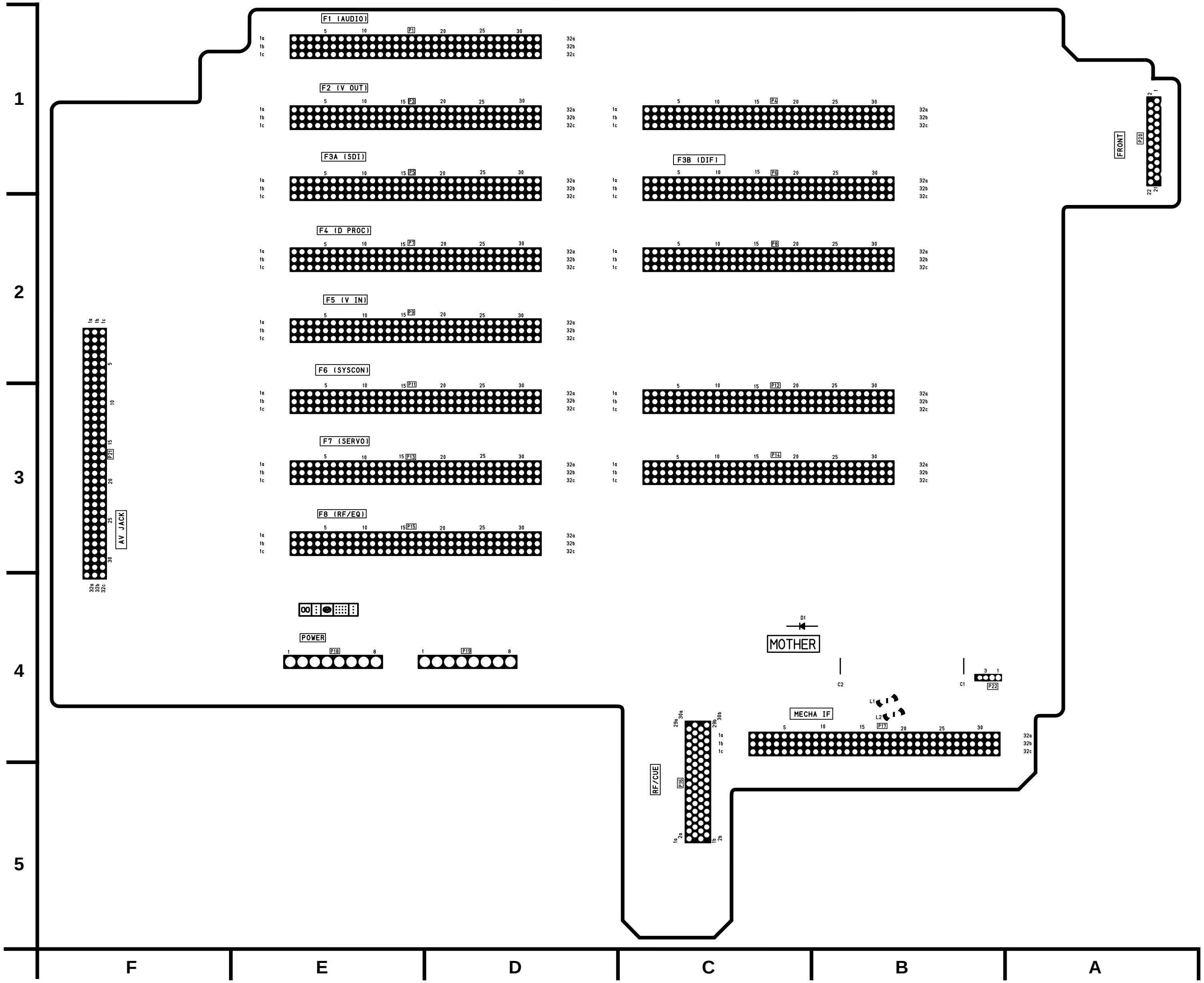
REF	LOC
P1	E1
P3	E1
P4	C1
P5	E1
P6	C1
P7	E2
P8	C2
P9	E2
P11	E3
P12	C3
P13	E3
P14	C3
P15	E3
P16	C5
P17	B4
P18	E4
P19	D4
P20	A1
P21	F3
P22	B4


1
2
3
4
5
A
B
C
D
E
F
FRONT
P20
F1 (AUDIO)
P1
F2 (V OUT)
P3
F3A (SDI)
P5
F3B (DIF)
P6
P4
P8
F4 (D PROC)
P7
F5 (V IN)
P9
F6 (SYSCON)
P11
F7 (SERVO)
P13
F8 (RF/EQ)
P15
P12
P14
AV JACK
P21
MOTHER
VJB80C14
VEP80C14
NM1V
D1
C1
C2
L1
L2
P22
MECHA IF
P17
P16
RF/CUE
P19
POWER
P18
30
25
20
15
10
5
32a
32b
32c
1a
1b
1c

(COMPONENT SIDE)

MOTHER P.C. BOARD (VEP80C14A)

CBA-18


F1 (AUDIO)
F2 (V OUT)
F3A (SDI)
F3B (DIF)
F4 (D PROC)
F5 (V IN)
F6 (SYSCON)
F7 (SERVO)
F8 (RF/EQ)
AV JACK
FRONT
POWER
MOTHER
MECHA IF
RF/CUE
D1
C1
C2
L1
L2
P1
P3
P4
P5
P6
P7
P8
P9
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
P21
P22
1
2
3
4
5
F
E
D
C
B
A

(FOIL SIDE)

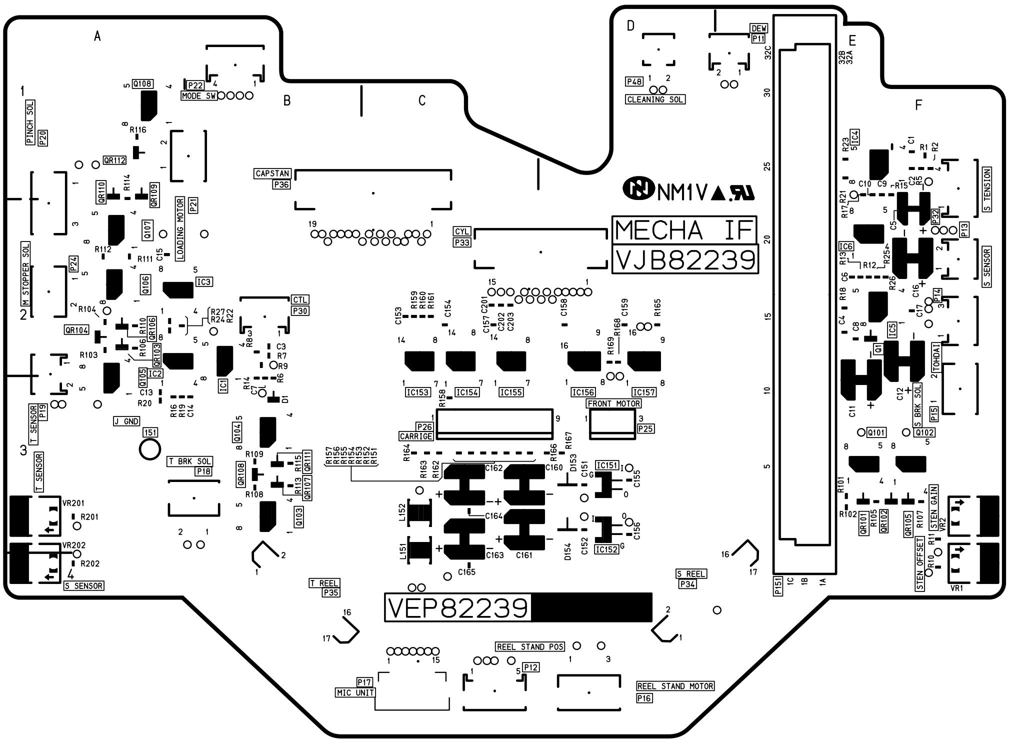
FOIL SIDE

REF	LOC
P1	E1
P3	E1
P4	C1
P5	E1
P6	C1
P7	E2
P8	C2
P9	E2
P11	E3
P12	C3
P13	E3
P14	C3
P15	E3
P16	C5
P17	B4
P18	E4
P19	D4
P20	A1
P21	F3
P22	B4

MECHA IF P.C. BOARD (VEP82239A)

COMPONENT SIDE

REF	LOC	REF	LOC
IC1	B2	P33	C2
IC2	A2	P34	D4
IC3	A2	P35	B4
IC4	E1	P36	B1
IC5	A2	P48	D1
IC5	E2	P151	E4
IC6	E2	Q1	E2
IC151	D3	Q101	E3
IC152	D3	Q102	F3
IC153	C2	Q103	B3
IC154	C2	Q104	B3
IC155	C2	Q106	A2
IC156	D2	Q107	A2
IC157	D2	Q108	A1
P11	E1	QR101	E3
P12	C4	QR102	E3
P13	F2	QR103	A2
P14	F2	QR104	A2
P15	F3	QR105	F3
P16	D4	QR106	A2
P17	C4	QR107	B3
P18	B3	QR108	B3
P19	A2	QR109	A1
P20	A1	QR110	A1
P21	B1	QR111	B3
P22	B1	QR112	A1
P24	A2	VR1	F4
P25	D3	VR2	F3
P26	C3	VR201	A3
P30	B2	VR202	A3
P32	F1		

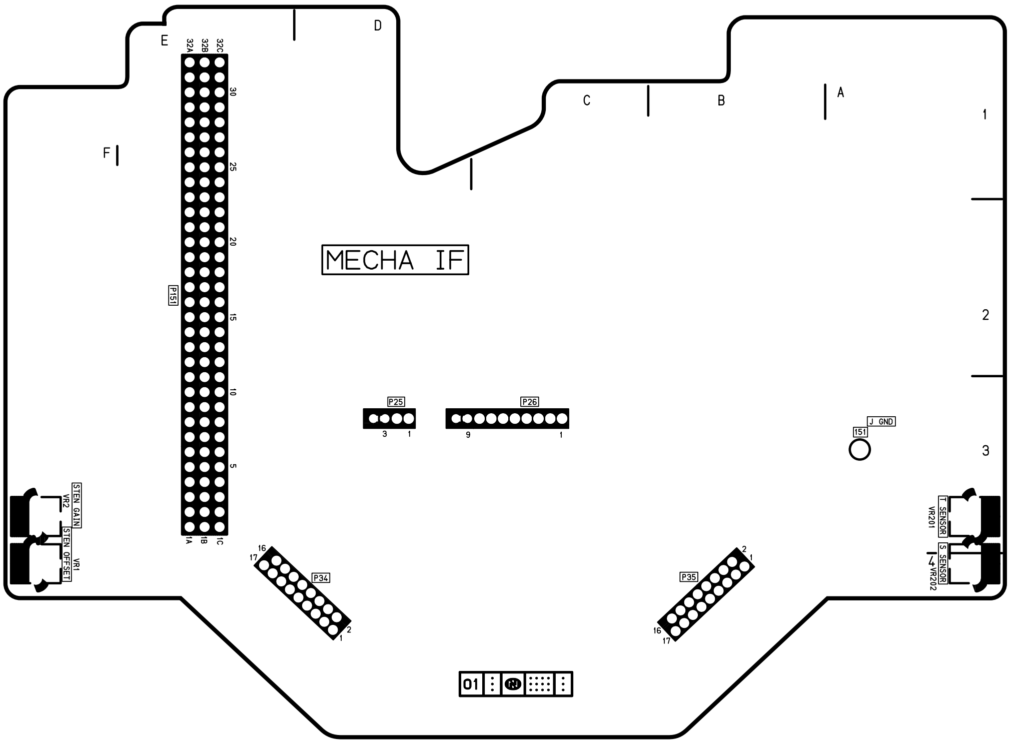


A
B
C
D
E
F
1
2
3
4
MECHA IF
VJB82239
VEP82239
NM1V
PINCH SOL P20
M STOPPER SOL P24
T SENSOR P19
T SENSOR
S SENSOR
VR201
VR202
R201
R202
MODE SW P22
Q108
QR112
QR110
QR109
Q107
LOADING MOTOR P21
IC3
Q106
QR104
QR106
QR103
IC2
IC1
CTL P30
CAPSTAN P36
CYL P33
J GND
151
T BRK SOL P18
QR108
QR107
QR111
Q103
Q104
Q105
IC153
IC154
IC155
IC156
IC157
FRONT MOTOR
P25
P26 CARRIAGE
IC151
IC152
L151
L152
C161
C162
C163
C164
C165
T REEL P35
S REEL P34
P17 MIC UNIT
REEL STAND POS P12
REEL STAND MOTOR P16
DEW P11
P48 CLEANING SOL
P151
32C
32B
32A
1C
1B
1A
IC4
IC6
IC5
Q1
P32
P13
P14
P15
S TENSION
S SENSOR
TOHDAI
S BRK SOL
Q101
Q102
QR101
QR102
QR105
STEN GAIN
STEN OFFSET
VR1
VR2

(COMPONENT SIDE)

FOIL SIDE

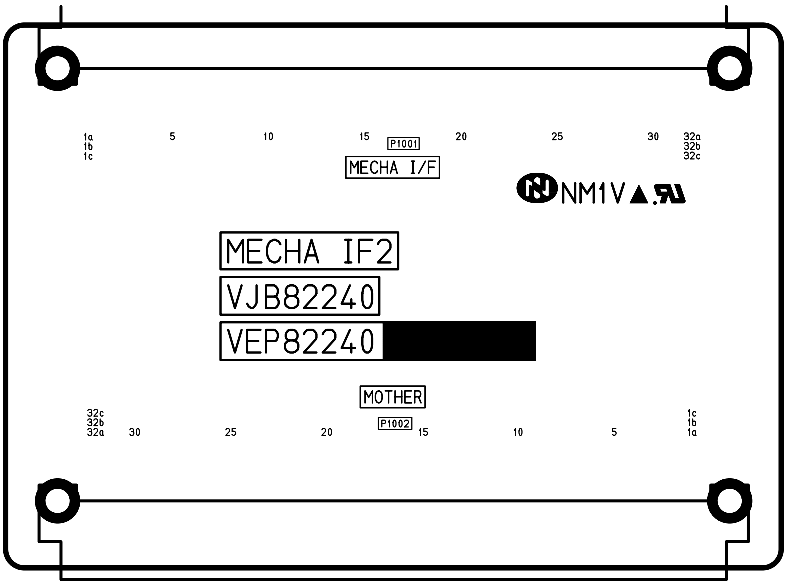
REF	LOC
P151	E2
P25	D3
P26	C3
P34	D4
P35	B4
VR1	F4
VR2	F3
VR201	A3
VR202	A4



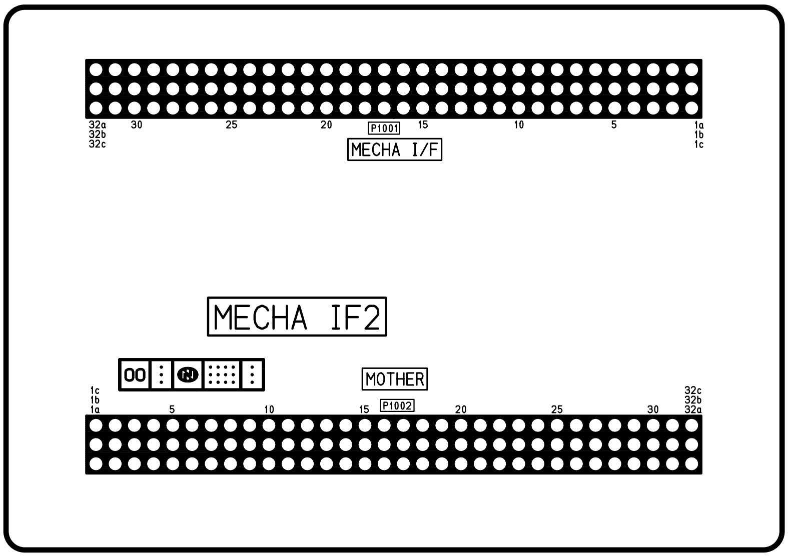
E
D
C
B
A
F
1
2
3
MECHA IF
P151
32A
32B
32C
1A
1B
1C
P25
P26
J GND
151
STEN GAIN
VR2
STEN OFFSET
VR1
T SENSOR
VR201
S SENSOR
VR202
P34
P35
01

(FOIL SIDE)

MECHA IF2 P.C. BOARD (VEP82240A)


1a
1b
1c
5
10
15
P1001
20
25
30
32a
32b
32c
MECHA I/F
NM1V
MECHA IF2
VJB82240
VEP82240
MOTHER
32c
32b
32a
30
25
20
P1002
15
10
5
1c
1b
1a

(COMPONENT SIDE)


32a
32b
32c
30
25
20
P1001
15
10
5
1a
1b
1c
MECHA I/F
MECHA IF2
MOTHER
1c
1b
1a
5
10
15
P1002
20
25
30
32c
32b
32a

(FOIL SIDE)

POWER1 P.C. BOARD (VEP81221A)

COMPONENT SIDE

REF	LOC
IC1001	C3
IC1101	C4
IC1102	D4
IC1103	C3
IC1201	D2
IC1202	D3
IC1203	D4
IC1205	D1
P1103	A1
P1201	E2
P1202	E3
Q1001	B1
Q1002	D2
Q1003	D2
Q1004	D3
Q1102	B2
Q1103	B2
VR1102	C4
VR1201	D3

JAPAN ONLY

⚠ 警 告

感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。

+ 感電ややけどの可能性があります。

① ⚠ 警 告　⚠ 印の部品は安全上重要な部品です。交換するときは、安全及び性能維持のため必ず指定の部品をご使用ください。

② ▭ 内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。

③ 部品交換時には、電源プラグをぬいてから行ってください。

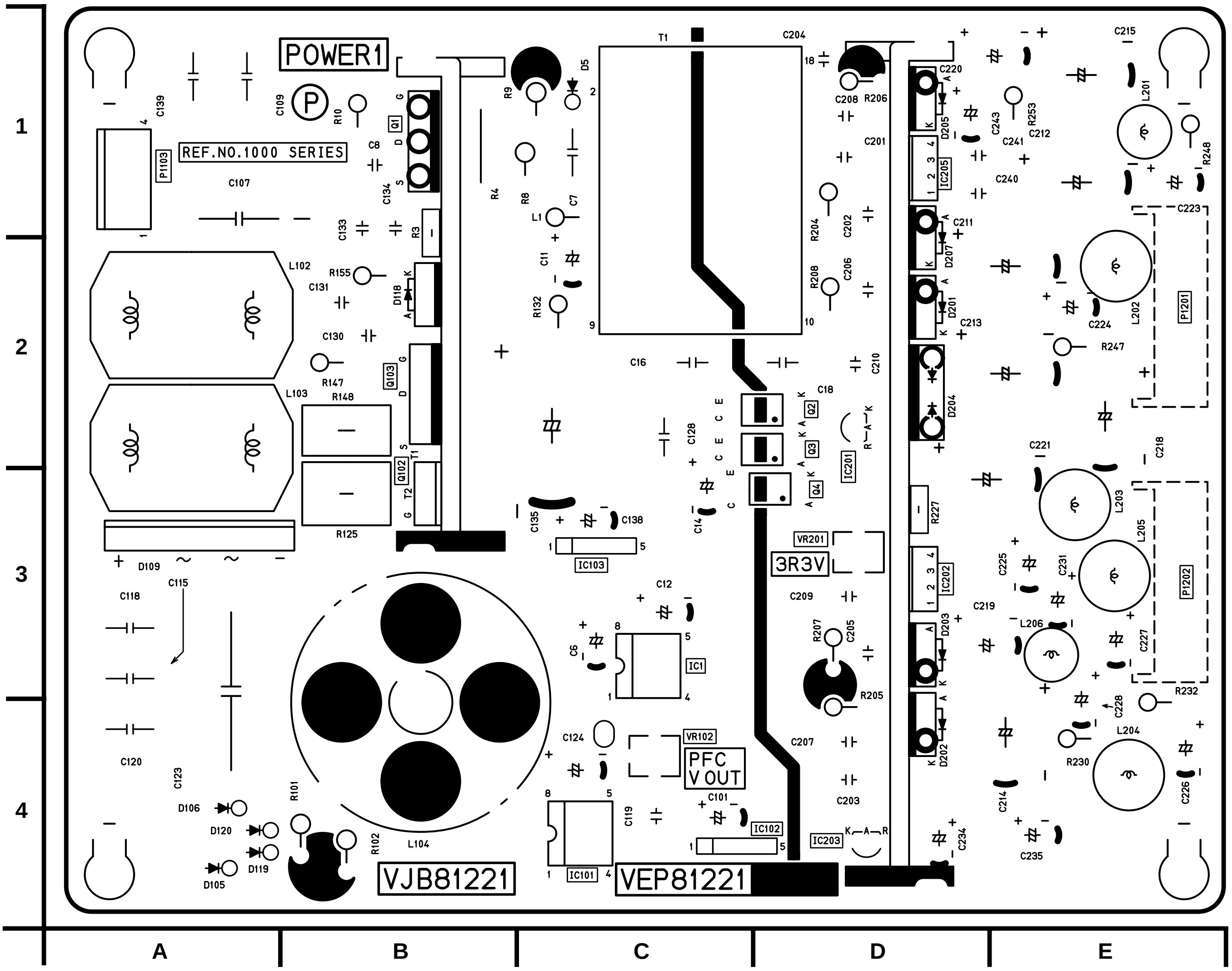
④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。

⑤ 部品品番は、部品価格表で確認の上交換ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.


1
2
3
4
A
B
C
D
E
POWER1
REF.NO.1000 SERIES
P1103
C139
C107
C109
R10
Q1
C8
C134
C133
R3
R4
R8
R9
D5
L1
C7
C11
R132
T1
C204
C208
R206
C201
R204
C202
R208
C206
C16
C210
C18
Q2
Q3
Q4
IC201
C128
C14
L102
R155
C131
D118
C130
R147
Q103
L103
R148
Q102
R125
D109
C115
C118
C120
C123
D106
D120
D119
D105
R101
R102
L104
C135
C138
IC103
C12
C6
IC1
C124
VR102
PFC
V OUT
C119
IC101
C101
IC102
IC203
C203
C207
R205
C205
R207
C209
VR201
3R3V
C220
D205
IC205
C243
R253
C241
C212
C240
C211
D207
D201
C213
D204
R227
IC202
D203
D202
C215
L201
R248
C223
P1201
C224
L202
R247
C221
C218
L203
L205
C225
C231
P1202
C219
L206
C227
C228
R232
L204
R230
C226
C214
C234
C235
VJB81221
VEP81221

(COMPONENT SIDE)

POWER1 P.C. BOARD (VEP81221A)

FOIL SIDE

REF	LOC
IC1001	C3
IC1101	C4
IC1102	C4
IC1103	C3
IC1201	D2
IC1202	D3
IC1203	D4
IC1204	D4
IC1205	D1
P1103	A1
P1201	F2
P1202	F3
Q1001	B1
Q1002	C2
Q1003	C2
Q1004	C3
Q1101	B4
Q1102	B3
Q1103	B2
Q1201	D4
Q1202	D4
Q1203	D4
Q1204	B3
QR1001	C3
QR1002	C3
QR1101	B4
QR1102	C4
QR1103	C4
QR1104	C4
QR1105	C4
QR1201	D3
QR1202	D3
QR1203	F4
QR1204	F4
QR1205	F4
QR1206	F4
QR1207	F4

JAPAN ONLY

⚠ 警 告

感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。

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② ▭ 内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。

③ 部品交換時には、電源プラグをぬいてから行ってください。

④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。

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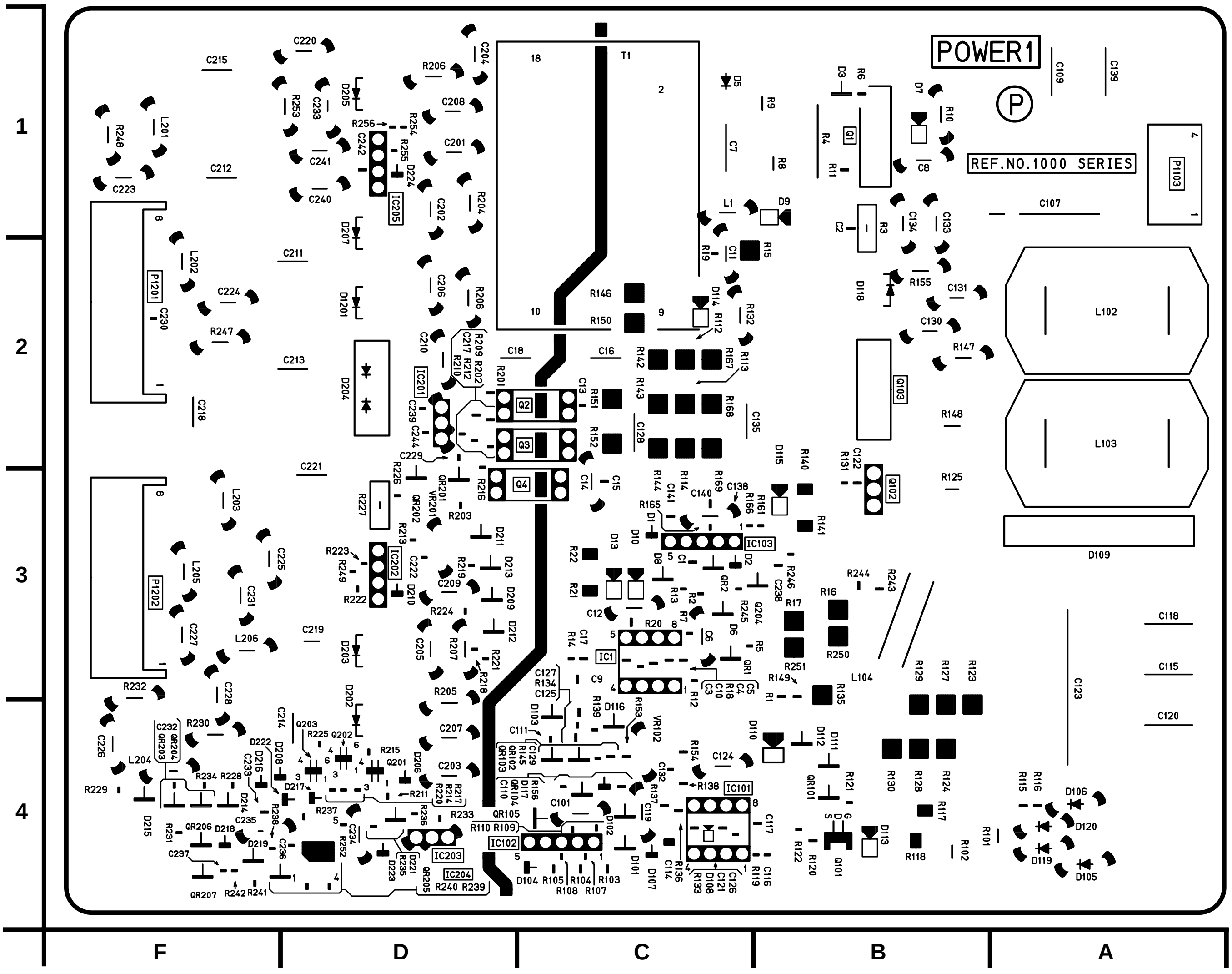
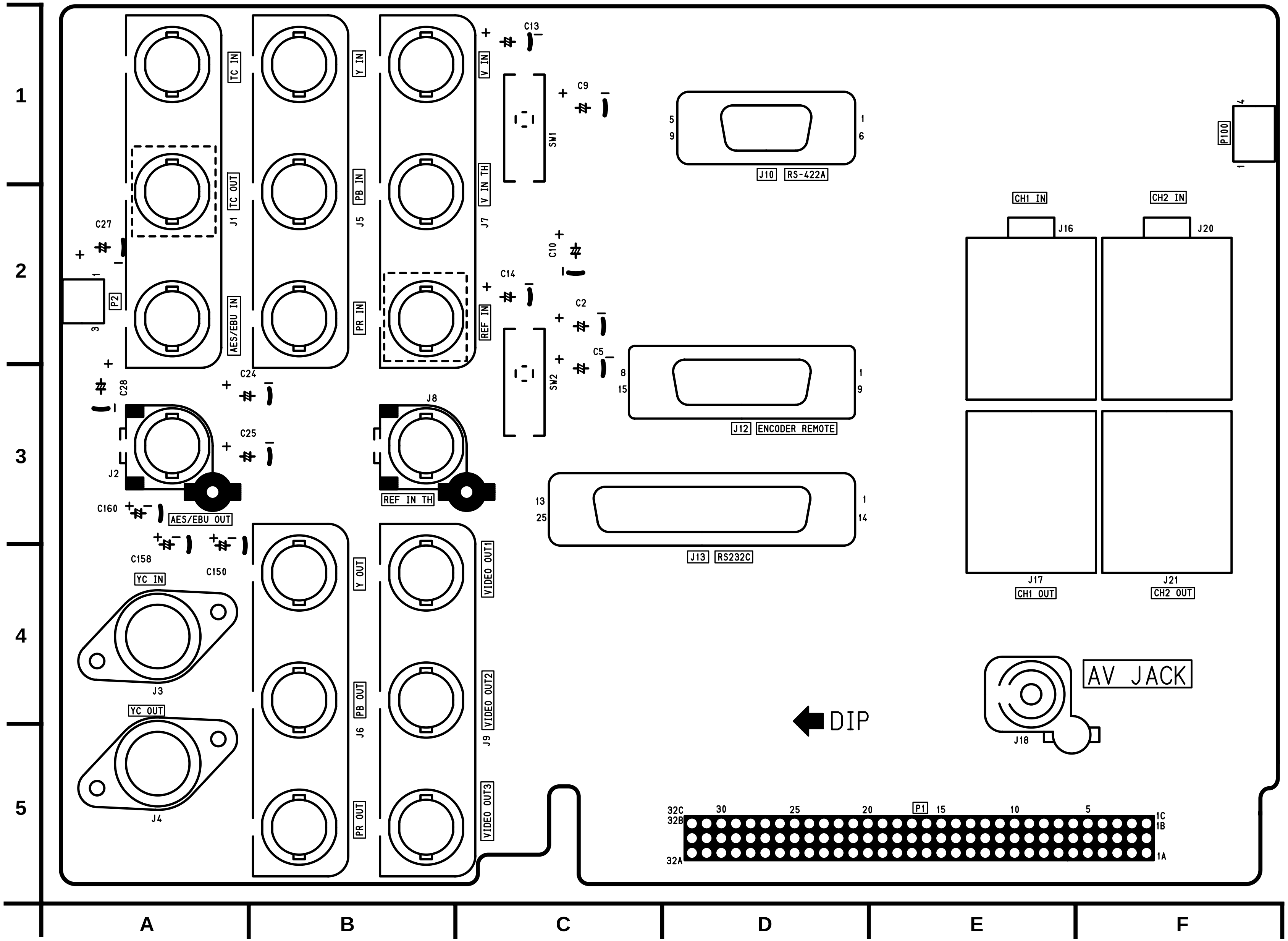

POWER1
P
REF.NO.1000 SERIES
T1
18
2
10
9
L102
L103
D109
P1103
P1201
P1202
Q1
Q2
Q3
Q4
Q102
Q103
IC1
IC101
IC102
IC103
IC201
IC202
IC203
IC204
IC205
L1
L104
L201
L202
L203
L205
L206
L204
C107
C123
C118
C115
C120
1
2
3
4
F
D
C
B
A

(FOIL SIDE)

AV JACK P.C. BOARD (VEP80C13B)

COMPONENT SIDE

REF	LOC
P1	E5
P2	A2
P100	F1

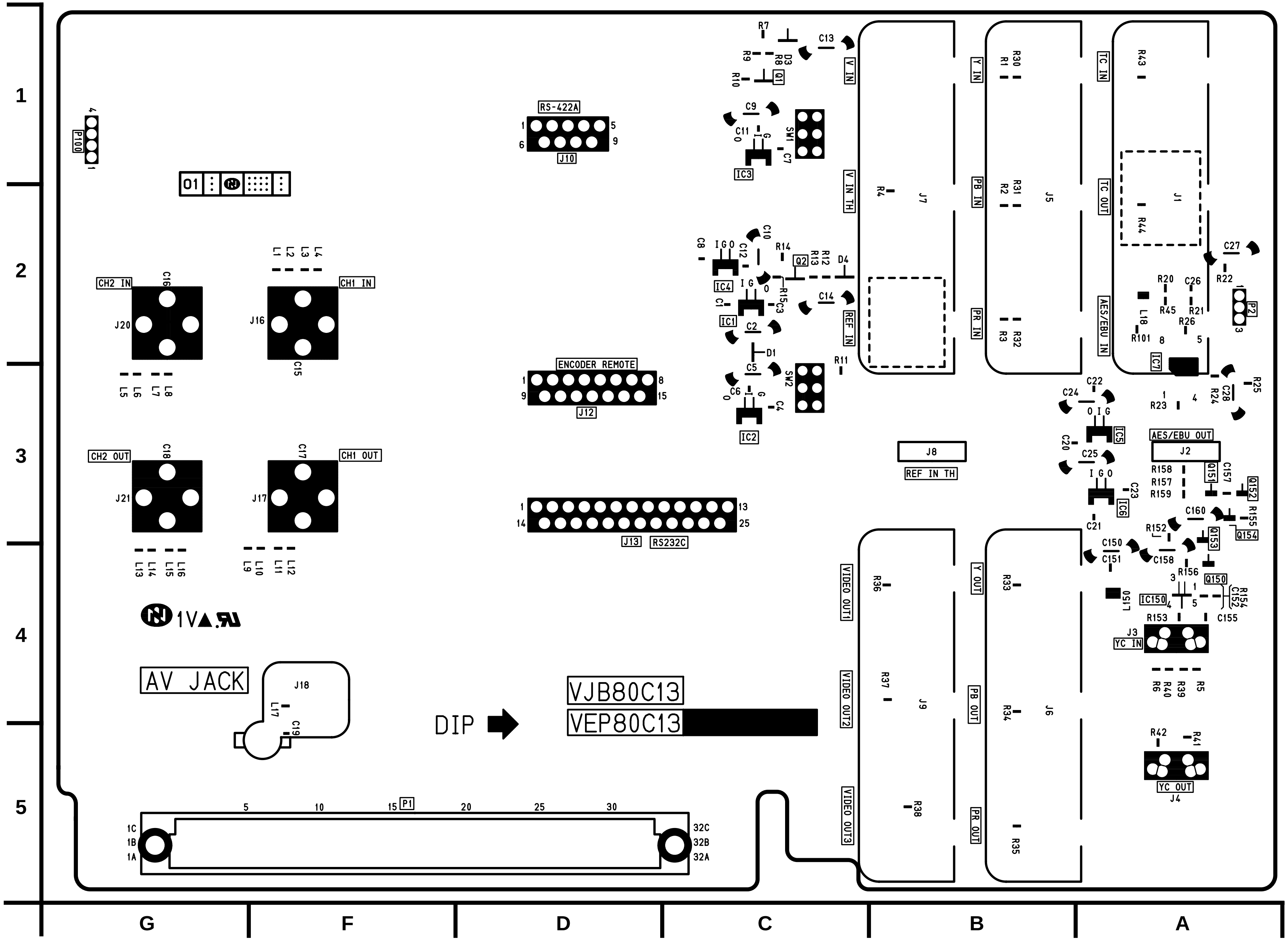


1
2
3
4
5
A
B
C
D
E
F
TC IN
TC OUT
J1
AES/EBU IN
Y IN
PB IN
J5
PR IN
V IN
V IN TH
J7
REF IN
C13
C9
SW1
C10
C14
C2
C5
SW2
J10
RS-422A
J12
ENCODER REMOTE
J13
RS232C
P100
CH1 IN
CH2 IN
J16
J20
J17
CH1 OUT
J21
CH2 OUT
C27
P2
C28
C24
C25
J2
J8
REF IN TH
C160
AES/EBU OUT
C158
C150
YC IN
J3
YC OUT
J4
Y OUT
PB OUT
J6
PR OUT
VIDEO OUT1
VIDEO OUT2
J9
VIDEO OUT3
AV JACK
J18
DIP
P1
32C
32B
32A
30
25
20
15
10
5
1C
1B
1A

(COMPONENT SIDE)

AV JACK P.C. BOARD (VEP80C13B)

CBA-24


1
2
3
4
5
G
F
D
C
B
A
P100
RS-422A
J10
ENCODER REMOTE
J12
J13
RS232C
CH2 IN
CH1 IN
CH2 OUT
CH1 OUT
J20
J16
J21
J17
J18
AV JACK
DIP
VJB80C13
VEP80C13
P1
V IN
V IN TH
REF IN
Y IN
PB IN
PR IN
TC IN
TC OUT
AES/EBU IN
AES/EBU OUT
J1
J2
J3
J4
J5
J6
J7
J8
J9
REF IN TH
VIDEO OUT1
VIDEO OUT2
VIDEO OUT3
Y OUT
PB OUT
PR OUT
YC IN
YC OUT
SW1
SW2
IC1
IC2
IC3
IC4
IC5
IC6
IC7
IC150
Q1
Q2
Q150
Q151
Q152
Q153
Q154

(FOIL SIDE)

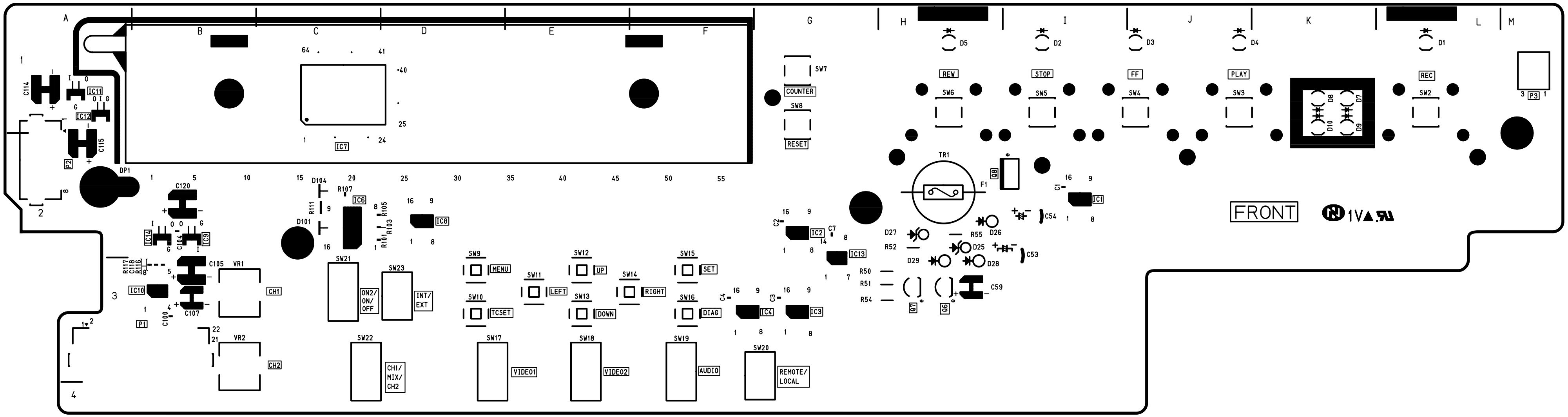
FOIL SIDE

REF	LOC
IC1	C2
IC2	C3
IC3	C1
IC4	C2
IC5	A3
IC6	A3
IC7	A2
IC150	A4
P1	F5
P2	A2
P100	G1
Q1	C1
Q2	C2
Q150	A4
Q151	A3
Q152	A3
Q153	A3
Q154	A3

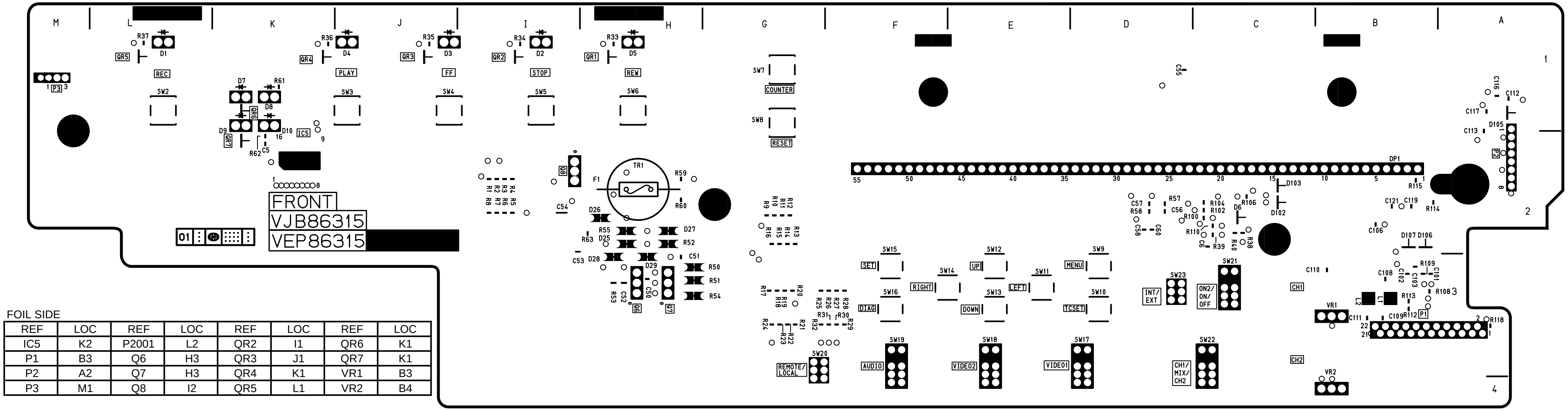
FRONT P.C. BOARD (VEP86315A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	I1	IC6	C2	IC10	B3	IC14	B2	P2001	L2	VR1	B3
IC2	G2	IC7	C2	IC11	A1	P1	B3	Q6	H3	VR2	B3
IC3	G3	IC8	D2	IC12	A1	P2	A2	Q7	H3		
IC4	F3	IC9	B2	IC13	G2	P3	M1	Q8	I2		


A
B
C
D
E
F
G
H
I
J
K
L
M
1
2
3
4
IC7
DP1
SW7
COUNTER
SW8
RESET
REW
STOP
FF
PLAY
REC
SW6
SW5
SW4
SW3
SW2
TR1
F1
IC1
IC2
IC3
IC4
IC6
IC8
IC10
IC11
IC12
IC13
VR1
VR2
CH1
CH2
SW9
MENU
SW10
TCSET
SW11
LEFT
SW12
UP
SW13
DOWN
SW14
RIGHT
SW15
SET
SW16
DIAG
SW17
VIDEO1
SW18
VIDEO2
SW19
AUDIO
SW20
REMOTE/
LOCAL
SW21
ON2/
ON/
OFF
SW22
CH1/
MIX/
CH2
SW23
INT/
EXT
P1
P2
P3
FRONT
1V▲

(COMPONENT SIDE)

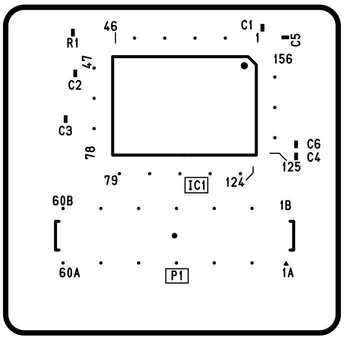

M
L
K
J
I
H
G
F
E
D
C
B
A
1
2
3
4
D1
D2
D3
D4
D5
QR1
QR2
QR3
QR4
QR5
QR6
QR7
REC
PLAY
FF
STOP
REW
SW2
SW3
SW4
SW5
SW6
SW7
COUNTER
SW8
RESET
IC5
P3
FRONT
VJB86315
VEP86315
TR1
F1
DP1
SW9
MENU
SW10
TCSET
SW11
LEFT
SW12
UP
SW13
DOWN
SW14
RIGHT
SW15
SET
SW16
DIAG
SW17
VIDEO1
SW18
VIDEO2
SW19
AUDIO
SW20
REMOTE/
LOCAL
SW21
ON2/
ON/
OFF
SW22
CH1/
MIX/
CH2
SW23
INT/
EXT
VR1
VR2
CH1
CH2
P1
P2

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC5	K2	P2001	L2	QR2	I1	QR6	K1
P1	B3	Q6	H3	QR3	J1	QR7	K1
P2	A2	Q7	H3	QR4	K1	VR1	B3
P3	M1	Q8	I2	QR5	L1	VR2	B4

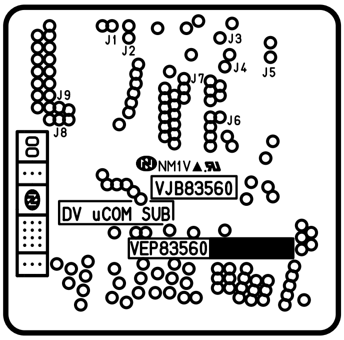
(FOIL SIDE)

DV u COM P.C. BOARD (VEP83560A)



R1
46
C1
1
C5
47
156
C2
C3
78
C6
C4
125
79
IC1
124
60B
1B
60A
P1
1A

(COMPONENT SIDE)



J1
J2
J3
J4
J5
J7
J9
J8
J6
00
NM1V
VJB83560
DV uCOM SUB
VEP83560

(FOIL SIDE)

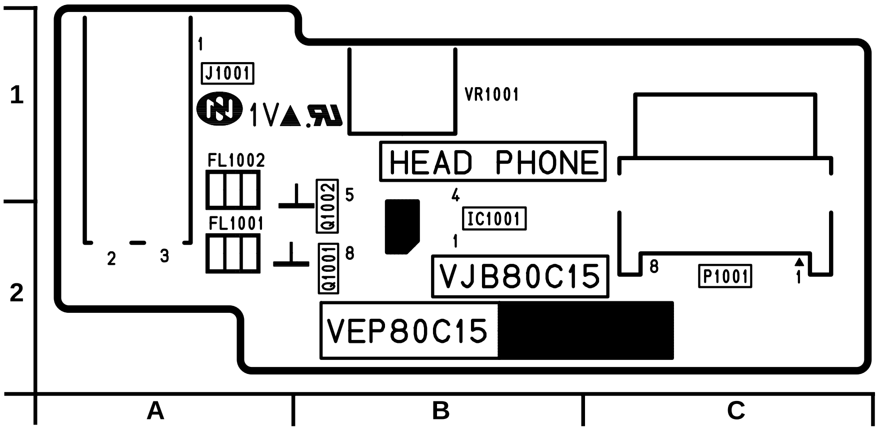
HP P.C. BOARD (VEP80C15A)

COMPONENT SIDE

REF	LOC
IC1001	B2
Q1001	A2
Q1002	A2
VR1001	B1
P1001	C2

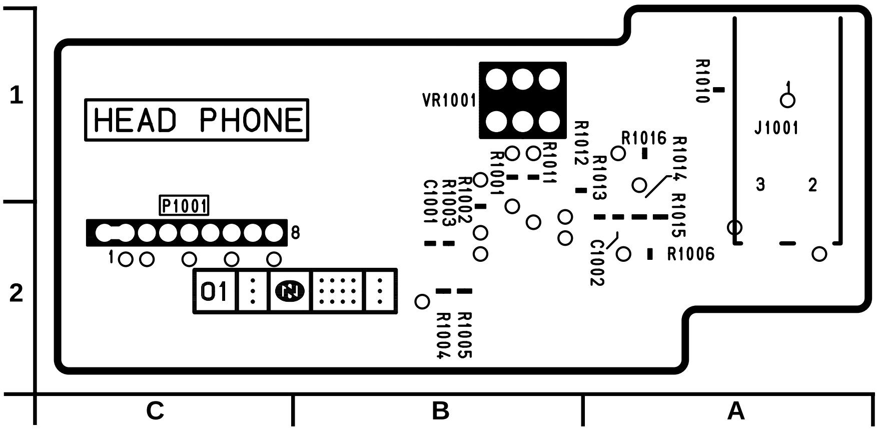
FOIL SIDE

REF	LOC
P1001	C2
VR1001	B1



1
J1001
1V
VR1001
HEAD PHONE
FL1002
Q1002
5
4
IC1001
FL1001
8
1
2
3
Q1001
VJB80C15
8
P1001
1
VEP80C15
1
2
A
B
C

(COMPONENT SIDE)



1
2
HEAD PHONE
VR1001
R1010
J1001
R1012
R1016
R1011
R1001
R1014
R1013
R1002
R1003
C1001
R1015
C1002
R1006
3
2
P1001
8
1
01
R1005
R1004
C
B
A

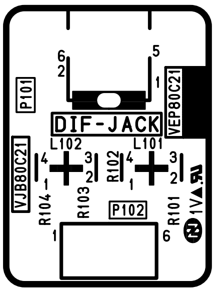
(FOIL SIDE)

F3B DIF / DIF JACK P.C.BOARD (VEP83559A / VEP80C21A) (AJ-YAD455P)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC206	A4	IC902	E3	SW301	D1	TP619	C3	TP660	B3	TP901	D2
IC207	D1	IC903	D4	SW701	C1	TP620	D4	TP661	A3	TP902	D3
IC208	D3	IP401	C1	TG201	A5	TP621	C4	TP662	B3	TP903	C4
IC209	C1	IP702	B2	TG202	A1	TP626	C3	TP663	A3		
IC301	E1	IP703	B3	TG203	C1	TP628	C4	TP701	C2		
IC402	D1	P101	D5	TG204	E4	TP629	C4	TP702	B1		
IC403	D1	P102	A3	TP101	A3	TP651	A2	TP703	C3		
IC404	D2	P401	D1	TP102	A3	TP652	B2	TP706	B1		
IC405	C2	P501	E3	TP103	A3	TP653	A2	TP707	B1		
IC501	E4	P701	B1	TP104	A3	TP654	B2	TP708	A1		
IC601	C3	P702	B1	TP105	A3	TP655	A2	TP714	B2		
IC704	B1	QR701	A1	TP615	C3	TP656	B2	TP716	B2		
IC705	B2	QR702	A1	TP616	C3	TP657	A2	TP717	A1		
IC801	B3	SW-2	C1	TP617	C3	TP658	B2	TP718	A1		
IC901	E2	SW201	C1	TP618	C3	TP659	A3	TP719	B3		

DIF JACK


P101
VEP80C21
DIF-JACK
VJB80C21
L102
L101
R102
R103
R104
R101
P102
1V
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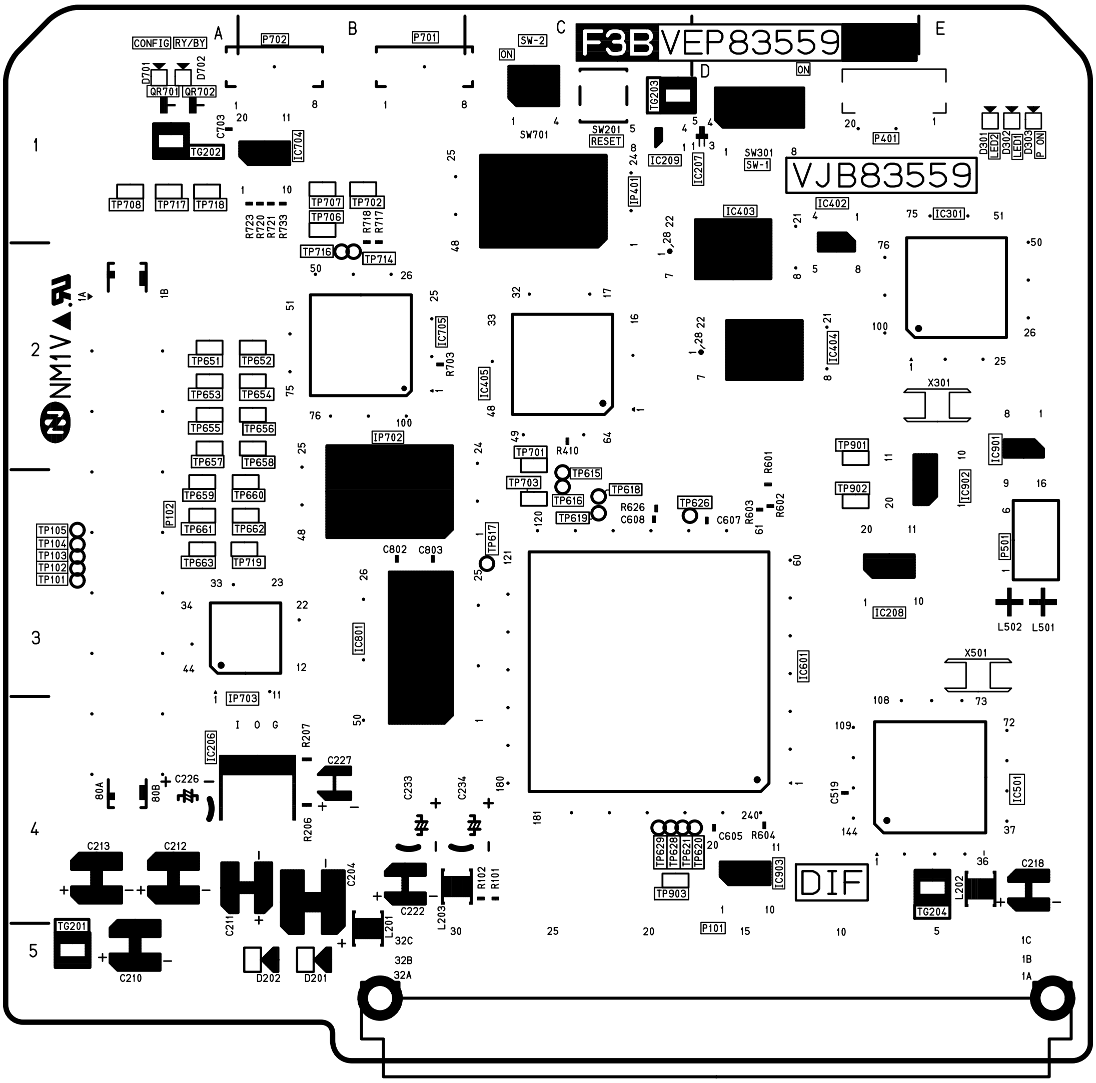
3

(COMPONENT SIDE)

F3B DIF


F3B VEP83559
VJB83559
DIF
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C
D
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P702
P701
SW-2
ON
SW701
SW201
RESET
TG203
TG202
TG201
TG204
SW301
SW-1
P401
IC209
IC207
IP401
IC403
IC402
IC301
IC404
IC405
IC705
IC704
IP702
IP703
IC801
IC601
IC901
IC902
IC208
IC501
IC206
IC903
P501
P102
P101
X301
X501
L502
L501
CONFIG
RY/BY
QR701
QR702
D701
D702
D301
D302
D303
LED1
LED2
P_ON
TP708
TP717
TP718
TP707
TP702
TP706
TP716
TP714
TP651
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TP653
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TP656
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TP719
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TP619
TP626
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TP901
TP902
TP903
TP629
TP628
TP621
TP620
C213
C212
C210
C211
C204
C222
C226
C227
C233
C234
C218
C802
C803
C605
C607
C608
C519
D202
D201
L201
L202
L203
R101
R102
R206
R207
R410
R626
R603
R604
R601
R602
R703
NM1V

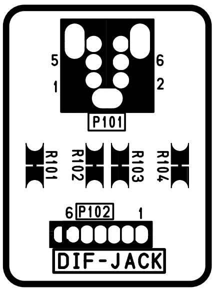
(COMPONENT SIDE)

F3B DIF / DIF JACK P.C.BOARD (VEP83559A / VEP80C21A) (AJ-YAD455P)

FOIL SIDE

REF	LOC	REF	LOC
IC201	A5	TP303	E1
IC202	A5	TP304	E2
IC203	A4	TP305	E2
IC204	A4	TP401	D1
IC210	D1	TP402	D1
IC211	D1	TP403	D1
IC302	E2	TP404	D1
IC802	B3	TP405	D1
P101	D5	TP406	D1
P501	E3	TP709	B2
QR301	E1	TP710	B2
QR302	E1	TP711	B2
SW201	C1	TP712	B2
TP301	E1	TP713	B2
TP302	E1	TP715	B2

DIF JACK



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P101
R101
R102
R103
R104
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P102
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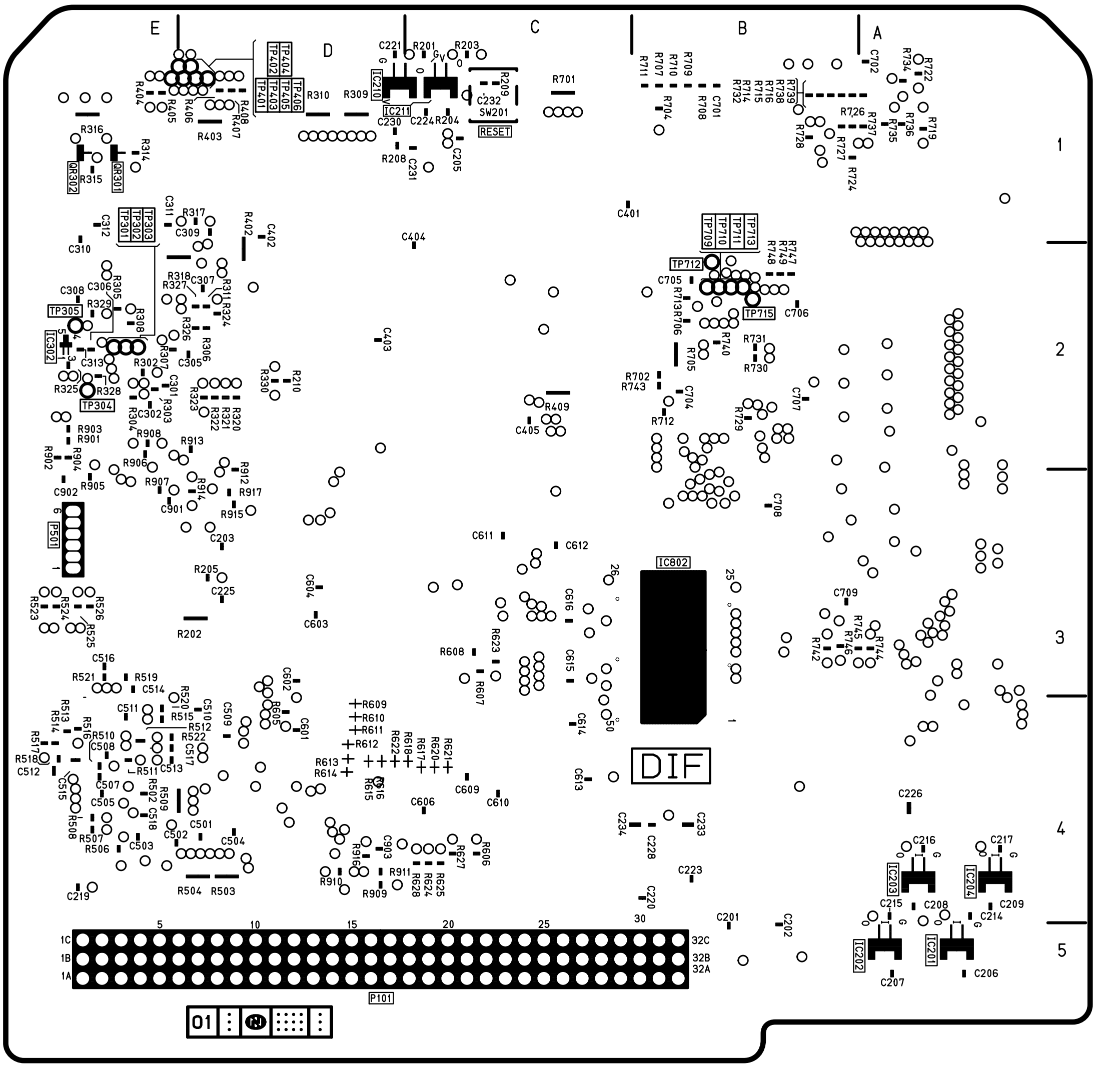
DIF-JACK

(FOIL SIDE)

F3B DIF



E
D
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IC210
IC211
SW201
RESET
QR302
QR301
TP301
TP302
TP303
TP304
TP305
IC302
TP401
TP402
TP403
TP404
TP405
TP406
TP709
TP710
TP711
TP712
TP713
TP715
P501
IC802
DIF
IC203
IC204
IC202
IC201
P101
1C
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32C
32B
32A
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01

(FOIL SIDE)

SECTION 7

EXPLODED VIEWS
&
REPLACEMENT PARTS LIST

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS,
   all capacitors are in MICROFARADS (μF), P=μμF.
3. The P.C. Board untils marked with "■" shown below the main assembled parts.
4. The parts marked withⒺon the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
   After the diacontinuation of this assembly in production, it will no longer be available.

CONTENTS

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ELECTRICAL REPLACEMNT PARTS LIST (AJ-YAD455P) PRT-61

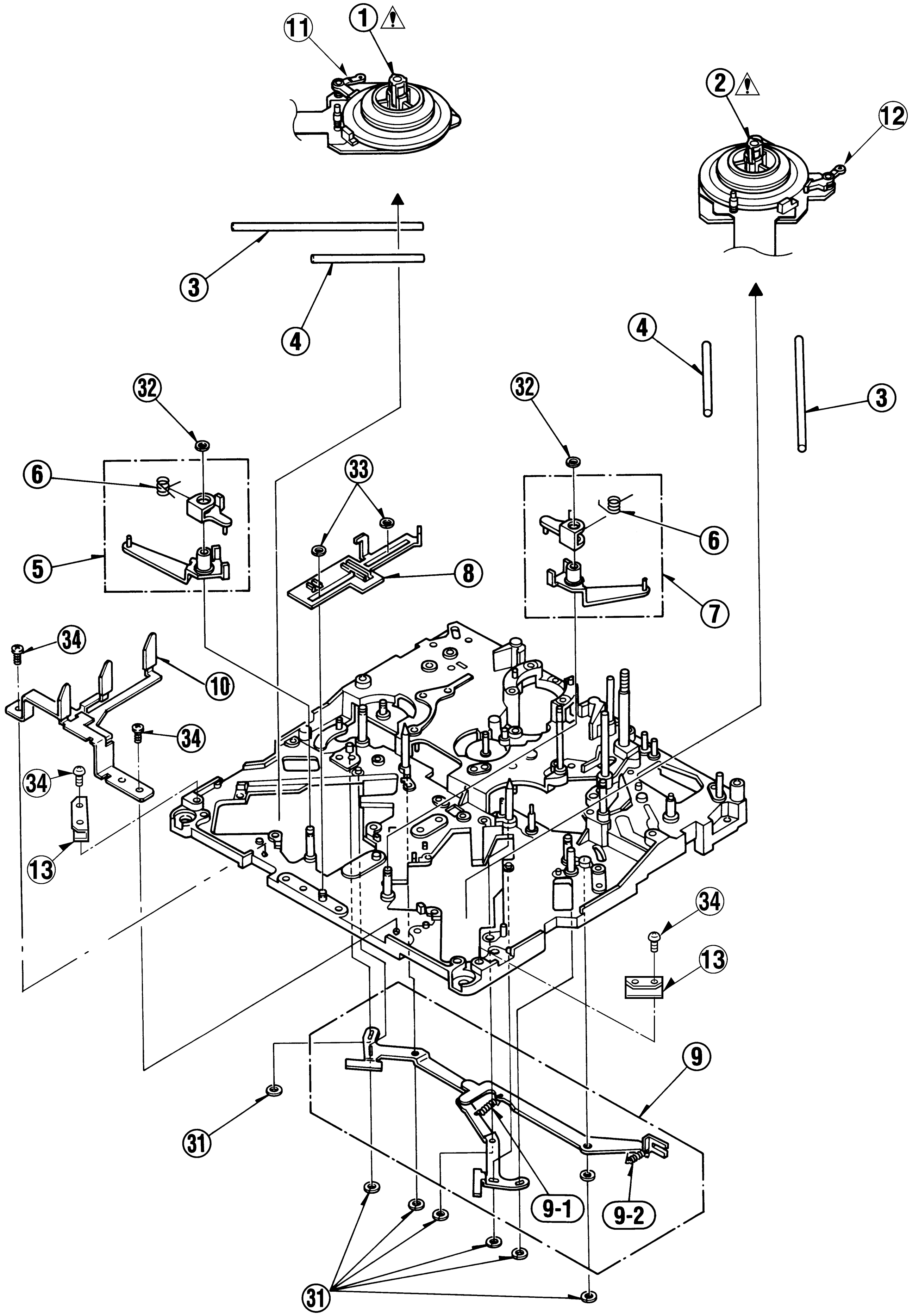
SERVICING FIXTURES & TOOLS

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145A	BACK TENSION METER	1	
2	VFK1149A	POST DRIVER	1	
3	VFK71A	DIAL TORQUE GAUGE (150G)	1	
4	VFK1191A	DIAL TORQUE GAUGE (45G)	1	
5	VFK1152	DIAL TORQUE GAUGE ADAPTER	1	
6	VFK0357	ECCENTRIC SCREW DRIVER	1	(1.5MM)
7	VFK1154	POST HEIGHT FIXTURE	1	
8	VFK1153	MECH. NEUTRAL PLATE	1	
9	VFK1155	REV. POSITION TOOL	1	(SILVER)
10	VFK1156	PLAY POSITION TOOL	1	(BLACK)
11	VFK1208	NEUTRAL POSITION TOOL	1	(BLACK WITH HOLE)
12	VFK1150	NUT DRIVER (5.5MM)	1	
13	VFK1151	NUT DRIVER (2.5MM)	1	
14	VFK1188A	DIAL TENSION GAUGE	1	
15	VFK0948A	CHECK LIGHT	1	
16	VFK0749	FROIRAL GREASE (WHITE)	1	(FOR PLASTIC PART)
17	M0R265	MORLYTONE GREASE (BLACK)	1	(FOR METAL PART)
18	VFK1146	PHILIPS DRIVER (00-75)	1	
19	VFK1147	PHILIPS DRIVER (00-100)	1	
20	VFK1148	HEX DRIVER (1.5MM)	1	
21	VFK1178	HEX DRIVER (0.89MM)	1	
22	VFK1179	HEX DRIVER (0.71MM)	1	
23	VFK1190	HEX. WRENCH	1	
24	VFK1209A	TORQUE DRIVER	1	
25	VFK1375	POST AXIS DRIVER	1	
26	VFK1300	A/D BOARD (DAQ-12)	1	
27	VFM3580KM	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.1)
27	VFM3580KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.1)
28	VFM3581KM	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.2)
28	VFM3581KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.2)
29	VFM3582KM	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.3)
29	VFM3582KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.3)
30	VFM3010EDS	DV ALIGNMENT TAPE	1	FOR NTSC (COLOR BAR)
31	VFM3000EDS	DV ALIGNMENT TAPE	1	(LISTA)
32	AJ-CL12MP	CLEANING TAPE	1	
33	VFK1423	TAPE BEG/END DET CASSETTE	1	(M)
34	VFK1192	F EXTENSION BOARD	1	
35	VFK1496	EXTENDER BOARD	1	
36	VFK1481B	LISTA SOFTWARE	1	
37	VFK1186	LISTA CABLE	1	
38	VFK1503	SERVO VERSION UP SOFTWARE	1	
39	VFK1590	C PLD WRITER	1	
40	VFK1304A	FLASH MEMORY VER. UP TOOL	1	
41	VFK0906	LUBRCATION OIL	1	
42	VZZ0095	CLEANING CLOTH	1	
43	-----	EE CLEANER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

MECHANICAL CHASSIS ASSEMBLY (1)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



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MECHANICAL CHASSIS ASSEMBLY (1)

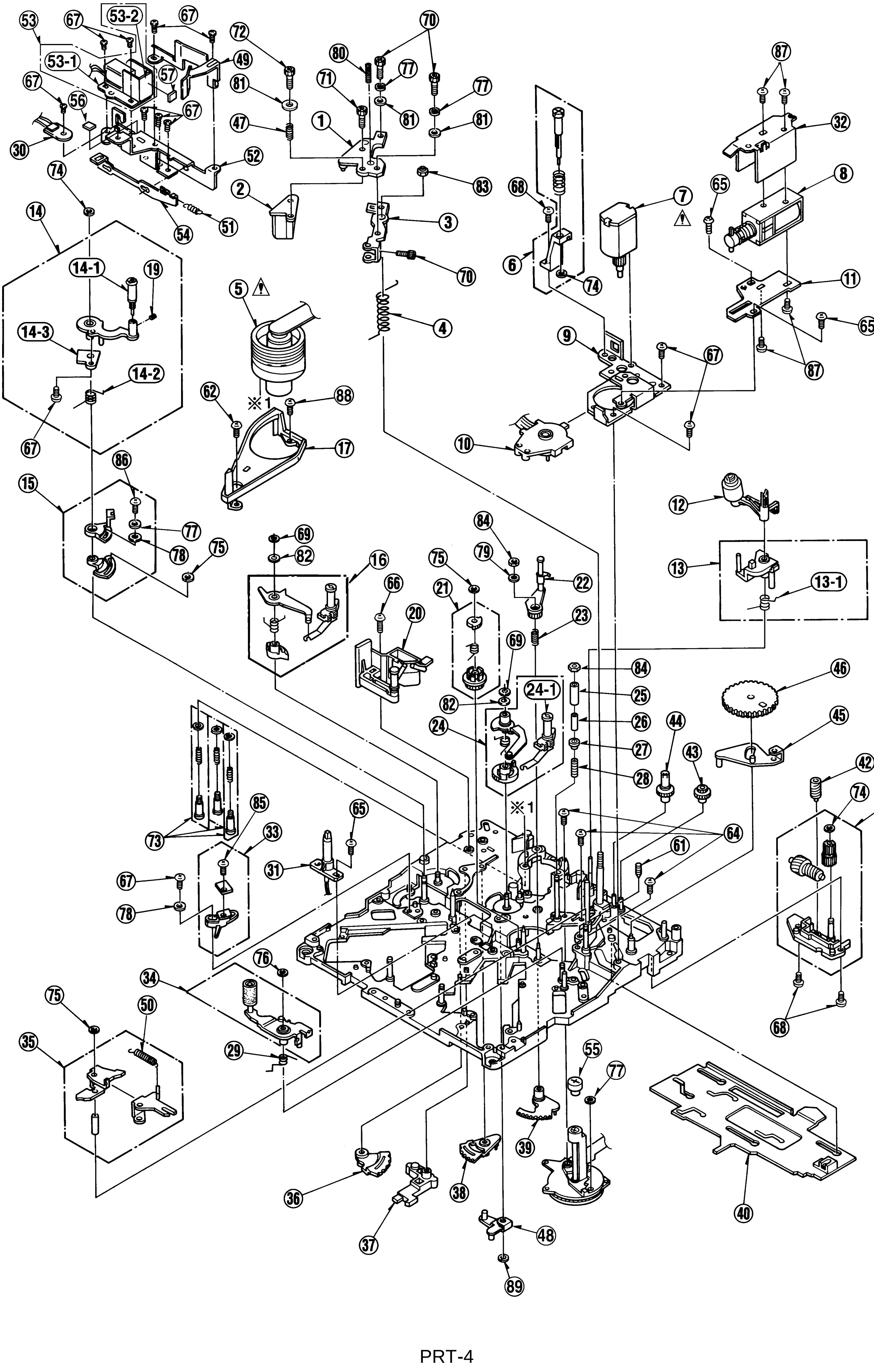
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VEM0686	S REEL MOTOR A ASS'Y	1	(M)
⚠ 2	VEM0687	T REEL MOTOR A ASS'Y	1	(M)
3	VMS5923	REEL OUTER RAIL	2	
4	VMS5924	REEL INNER RAIL	2	
5	VXL2589	S BASE DRIVE ARM ASS'Y	1	
6	VMB2944	CHARGE SPRING	2	
7	VXL2590	T BASE DRIVE ARM ASS'Y	1	
8	VXA5625	SLIDE ROD ASS'Y	1	
9	VXL2597	M STOPPER DRIVE ARM ASS'Y	1	
9-1	VMB2955	M STOPPER SPRING (1)	1	
9-2	VMB3017	M STOPPER SPRING (2)	1	
10	VXA6174	L-M BRAKE RELEASE ASS'Y	1	
11	VXZ0439	S BRAKE ARM ASS'Y	1	
12	VXZ0440	T BRAKE ARM ASS'Y	1	
13	VMZ2603	REEL FLEX COVER	2	
31	VMX1061	WASHER	7	
32	VMX1079	CUT WASHER	2	
33	VMX0967	CUT WASHER	2	
34	XQN2+CF3	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

MECHANICAL CHASSIS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



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53-2
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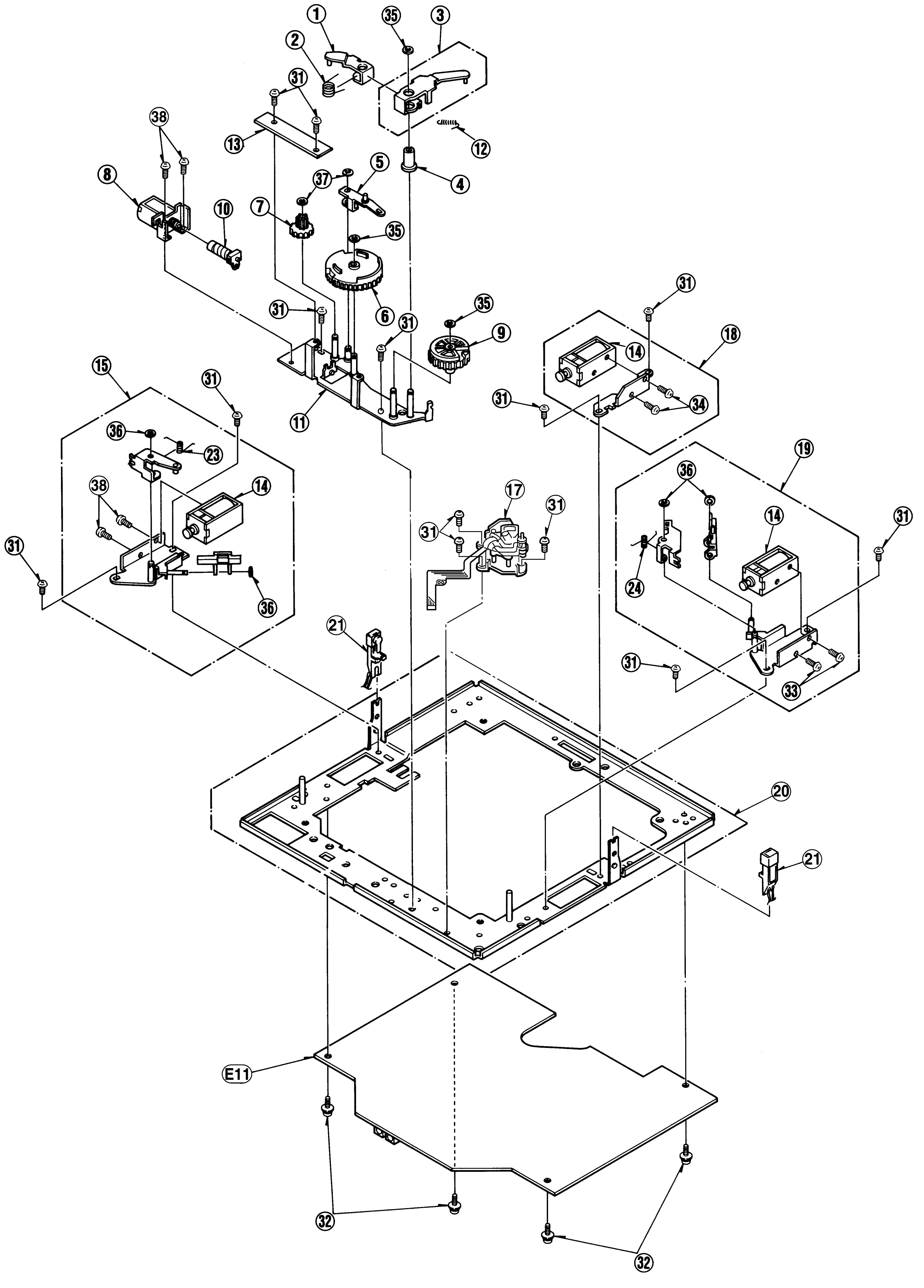
MECHANICAL CHASSIS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5554	A/C HEAD BASE (1) ASS'Y	1	
2	VED0419	A/C HEAD	1	(M)
3	VXA6067	A/C HEAD BASE (2) ASS'Y	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
⚠ 5	VEG1498	CYLINDER UNIT	1	
6	VXA5715	EMERGENCY SHIFT HOLDER ASS'	1	
⚠ 7	VEM0645	LOADING MOTOR (1)A ASS'Y	1	(M)
8	VSJ0227	PINCH SOLENOID	1	(M)
9	VXA5584	MOTOR ANGLE ASS'Y	1	
10	VES0930	MODE SW ASS'Y	1	
11	VMA0A35	PINCH SOLENOID BASE	1	
12	VXL3027	CLEANING ARM ASS'Y	1	
13	VXL2870	T2 ARM ASS'Y	1	
13-1	VMB3304	T2 ARM SPRING	1	
14	VXL2831	TENSION ARM A ASS'Y	1	(M)
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB3220	TENSION LEG SPRING	1	
14-3	VXA6173	MAGNET HOLDER ASS'Y	1	
15	VXA5791	TENSION LEG SPRING HOOK ASS'	1	
16	VXL2709	S1 LOADING ARM ASS'Y	1	(M)
17	VMD3731	LOADING RAIL	1	
19	VHD0561	HEX SCREW	1	
20	VXA6052	S POST BASE A ASS'Y	1	(M)
21	VXP1683	T4 CONNECTION GEAR ASS'Y	1	
22	VXL2772	T4 ARM ASS'Y	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2952	T LOADING ARM ASS'Y	1	
24-1	VXA6378	T1 BOART ASS'Y	1	
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULLATION SENSOR	1	
31	VEK7691	LED HOLDER P.C.BOARD	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820	TENSION SENSOR ASS'Y	1	
34	VXL2835	PINCH ARM ASS'Y	1	(M)
35	VXL2588	PINCH GUIDE ARM ASS'Y	1	
36	VXA5570	T SECTOR GEAR ASS'Y	1	
37	VXL2838	TENSION LEG. GUIDE ARM	1	
38	VXA5567	S SECTOR GEAR ASS'Y	1	
39	VXA5564	T4 SECTOR GEAR ASS'Y	1	
40	VXA6348	MAIN ROD ASS'Y	1	
41	VXA5627	THRUST SHAFT HOLDER ASS'Y	1	
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1268	MOTOR EMARGENCY GEAR A(A)	1	
44	VDG1267	MOTOR EMARGENCY GEAR B(A)	1	
45	VXL2889	MAIN CAM ARM ASS'Y	1	
46	VDG1168	MAIN CAM GEAR	1	(M)
47	VMB2937	A/C HEAD ADJUST SPRING	1	
48	VXL2600	EJECT ARM ASS'Y	1	
49	VMD3475	T1 GUIDE ASS'Y	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA6077	CLEANER BASE 1 ASS'Y	1	
53	VXA6078	CLEANER SOLENOID ASS'Y	1	
53-1	VSJ0226	CLEANER SOLENOID	1	(M)
53-2	VMA9877	CLEANER SOLENOID BASE	1	
54	VMM0429	CLEANER INTERLOCK	1	
55	VXQ0556	THRUST SCREW ASS'Y	1	(M)
56	VMT0871	SILENCER A	1	
57	VMT0872	SILENCER B	1	
61	VHD0356	SCREW	1	
62	XQN2+A3	SCREW	1	
64	XQN2+A35FZ	SCREW	3	
65	XQN2+AM2	SCREW	3	
66	XQN2+AM4	SCREW	1	
67	XQN2+CF3	SCREW	12	
68	XQN2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	
70	XVE2B4FZ	HEX SCREW	3	
71	XVE2B6FP	HEX SCREW	1	
72	XVE2B12FP	HEX SCREW	1	
73	VXQ0439	SCREW	3	
74	VMX0967	CUT WASHER	3	
75	VMX1061	WASHER	3	
76	VMX1079	CUT WASHER	1	
77	XWA2B	WASHER	4	
78	XWE2	WASHER	2	
79	XWE16VW	WASHER	1	
80	XXE2A6FP	HEX SCREW	1	
81	XWG2	WASHER	3	
82	XWGV15Z32G	WASHER	2	
83	VHD0045	NYLON NUT	1	
84	VHN0312	NUT	2	
85	XQN2+AQ3.5FZ	SCREW	1	
86	XQN2+AJ5	SCREW	1	
87	XQN2+A1.5	SCREW	4	
88	XQN2+A4	SCREW	1	
89	VMX0967	CUT WASHER	1	
*	VXY1631Z1	MECHA CHASSIS ASS'Y	1	

SUB CHASSIS ASSEMBLY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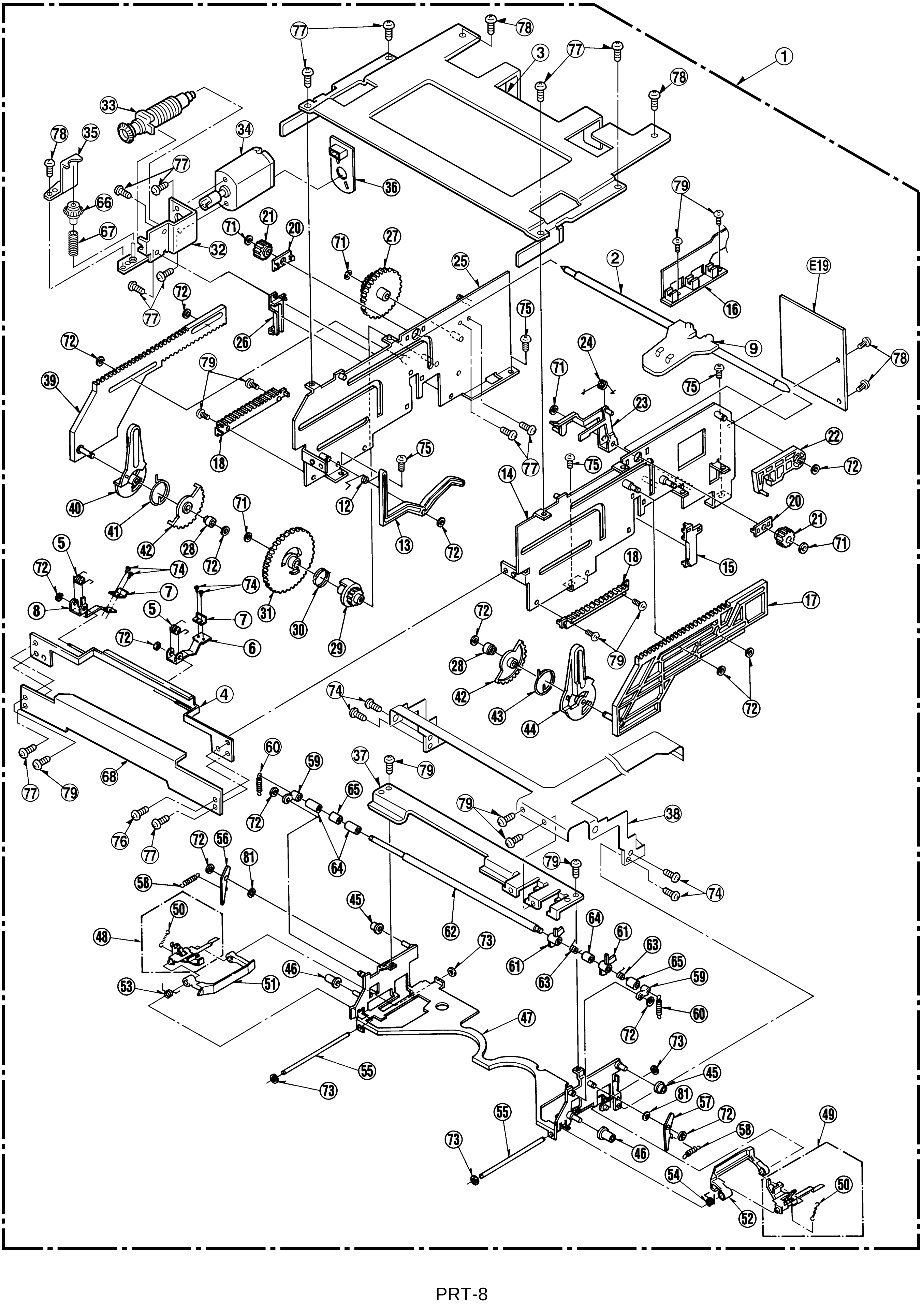
SUB CHASSIS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL2656	MIC DRIVE ARM (A) ASS'Y	1	
2	VMB3018	MIC DRIVE SPRING	1	
3	VXL2657	MIC DRIVE ARM (B) ASS'Y	1	
4	VDB1429	MIC DRIVE ARM BOSS	1	
5	VXL2613	REEL DRIVE ARM ASS'Y	1	
6	VDG1192	REEL DRIVE CAM GEAR	1	
7	VDG1193	REEL DRIVE WORM WHEEL	1	
8	VEM0585	REEL DRIVE MOTOR ASS'Y	1	(M)
9	VDG1211	MIC GENEVA GEAR	1	
10	VXP1698	REEL DRIVE WORM ASS'Y	1	
11	VXA5628	MOTOR BASE ASS'Y	1	
12	VMB3019	MIC DRIVE RETURN SPRING	1	
13	VEK7726	REEL SENSOR P.C.BOARD	1	
14	VSJ0216	SOLENOID	3	(M)
15	VXA5575	S-BRAKE SOLENOID BASE ASS'Y	1	
17	VXA6199	DISTINCTION SW ASS'Y	1	(M)
18	VXA5579	M STOPPER SOLENOID ASS'Y	1	
19	VXA5887	T-BRAKE SOLENOID BASE ASS'Y	1	
20	VXK1336	SUB CHASSIS	1	
21	VEK7692	SENSOR HOLDER ASS'Y	2	
22	VMS6193	T BRAKE RELEASE ARM SHAFT	1	
23	VMB2957	S BRAKE SPRING	1	
24	VMB2987	T BRAKE SPRING	1	
31	XQN2+CF3	SCREW	13	
32	XYN26+K6	SCREW	4	
33	XQN2+A1.5	SCREW	2	
34	XQN2+A2	SCREW	2	
35	VMX1079	CUT WASHER	3	
36	VMX0967	CUT WASHER	4	
37	VMX1548	CUT WASHER	2	
38	XQN2+A1.5	SCREW	4	
E11	VEP82239A	MECHA I/F P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

CASSETTE COMPARTMENT ASSEMBLY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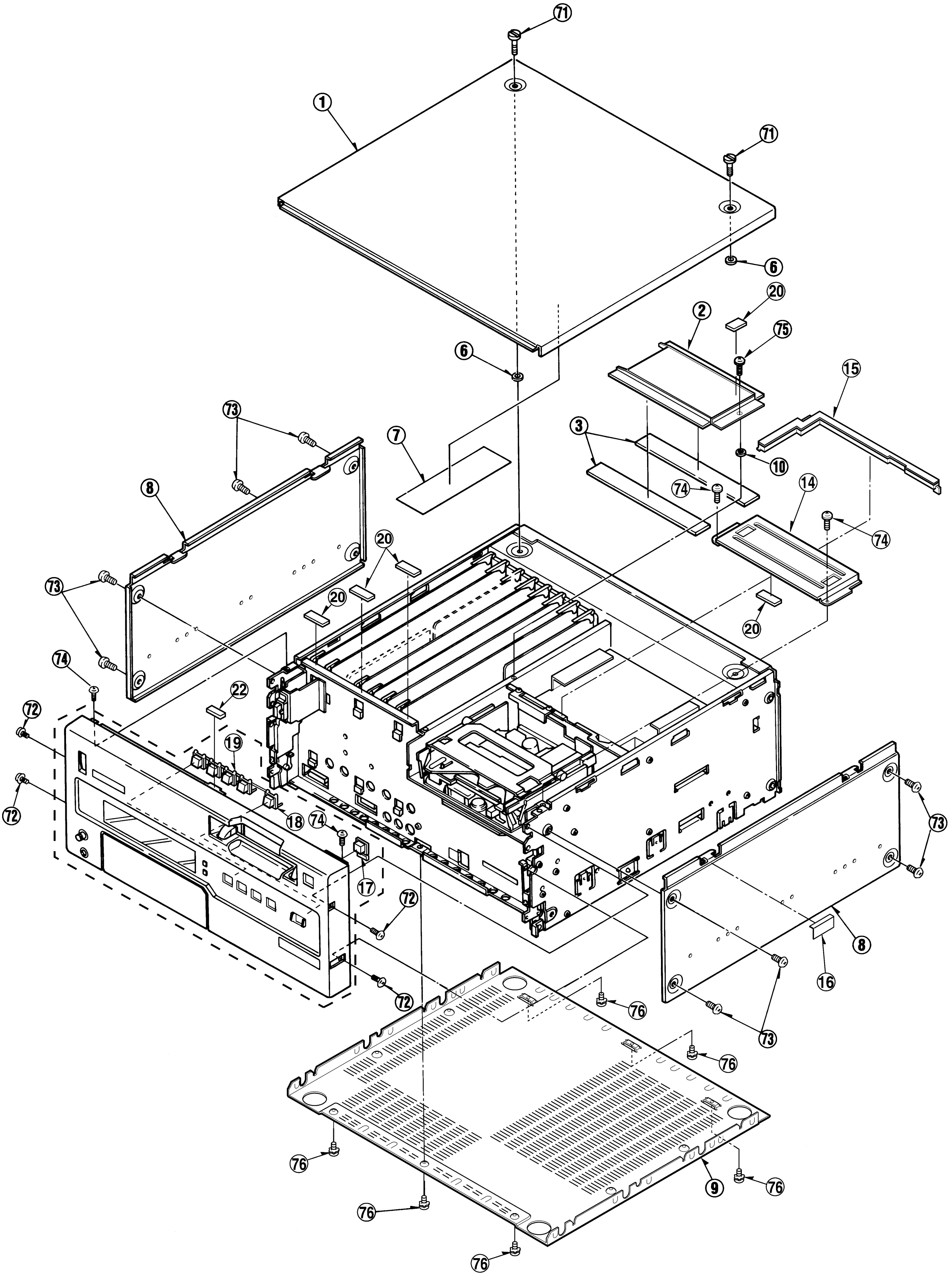
CASSETTE CONPARTMENT ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6593	CASSETTE COMPARTMENT	1	(M)
2	VMS5865	MAIN SHAFT	1	
3	VMA9849	TOP PLATE	1	
4	VXA6572	FRONT GUIDE 1 ASS'Y	1	
5	VMB3075	M GUIDE SPRING	2	
6	VML3191	M GUIDE RIGHT LEVER	1	
7	VML3192	M FRONT GUIDE	2	
8	VML3190	M GUIDE LEFT LEVER	1	
9	VML3397	CASSETTE PROTECT PLATE	1	
12	VMB2926	SPRING	1	
13	VML2A50	BLINDER PANEL OPENER	1	
14	VXA6074	R SIDE PLATE 1 ASS'Y	1	
15	VML3282	SUB RAIL (R)	1	
16	VEK7695	SIDE FLEXIBLE	1	
17	VXA5766	MAIN RACK R ASS'Y	1	
18	VDG1156	WIPER RACK	2	
20	VDB1395	MAIN SHAFT ANGLE	2	
21	VDG1412	INTERLOCK GEAR	2	
22	VML3193	OPENER DRIVE ARM	1	
23	VXL2692	OPENER ANGLE ASS'Y	1	
24	VMB2979	SPRING	1	
25	VXA6072	SIDE PLATE L 1 ASS'Y	1	
26	VML3281	SUB RAIL (L)	1	
27	VDG1413	INTERAMEDIATE GEAR	1	
28	VDP1643	WIPER ROLLER	2	
29	VDG1414	CLUTCH GEAR	1	
30	VMB2980	CLUTCH SPRING	1	
31	VDG1236	WORM WHEEL	1	
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1	
33	VXP1797	E.E SLOT IN WORM ASS'Y	1	
34	VXA5597	MOTOR ASS'Y	1	(M)
35	VMA9673	EMARGENCY ANGLE	1	
36	VEK7793	MOTOR P.C.BOARD	1	
37	VMA9668	HOLDER PLATE	1	
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1	
39	VXA6075	MAIN RACK (L) ASS'Y	1	
40	VML3485	WIPER ARM (R)	1	
41	VMB3391	WIPER ARM (L)	1	
42	VDG1163	WIPER GEAR	2	
43	VMB3390	WIPER SPRING (L)	1	
44	VML3484	WIPER SPRING (R)	1	
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2	
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1	
48	VXA5758	ROD L	1	
49	VXA5759	ROD R	1	
50	VMB3064	SLIDE SPRING	2	
51	VML3249	SIDE GUIDE L	1	
52	VML3250	SIDE GUIDE R	1	
53	VMB3061	SLIDE GUIDE SPRING L	1	
54	VMB3062	SLIDE GUIDE SPRING R	1	
55	VMS6108	KICK OFF ROD SHAFT	2	
56	VML2A54	KICK OFF ARM L	1	
57	VML2A55	KICK OFF ARM R	1	
58	VMB2928	KICK OFF SPRING	2	
59	VML2A53	CASSETTE HOLDER ARM	2	
60	VMB2927	CASSETTE HOLDER SPRING	2	
61	VMX2833	M-L DETECT ROLLER	2	
62	VMS5882	CASSETTE HOLDER SHAFT	1	
63	VMB3253	M-L DETECT SPRING	2	
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3	
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	2	
66	VDG1246	EMARGENCY GEAR	1	
67	VMB3109	EMARGENCY SPRING	1	
68	VMZ2661	FRONT GUIDE COVER	1	
71	VMX0653	CUT WASHER	5	
72	VMX0967	CUT WASHER	14	
73	VMX1061	WASHER	4	
74	XQN16+A2	SCREW	8	
75	XQN2+CF3	SCREW	4	
76	XQN2+A2	SCREW	1	
77	XYN2+C4	SCREW	12	
78	XQN2+A3	SCREW	5	
79	LMHD16064	SCREW	11	
81	XWGV2Z5G	WASHER	2	
E19	VEP80856A	CARRIGE P.C.BOARD	1	

CASING PARTS ASSEMBLY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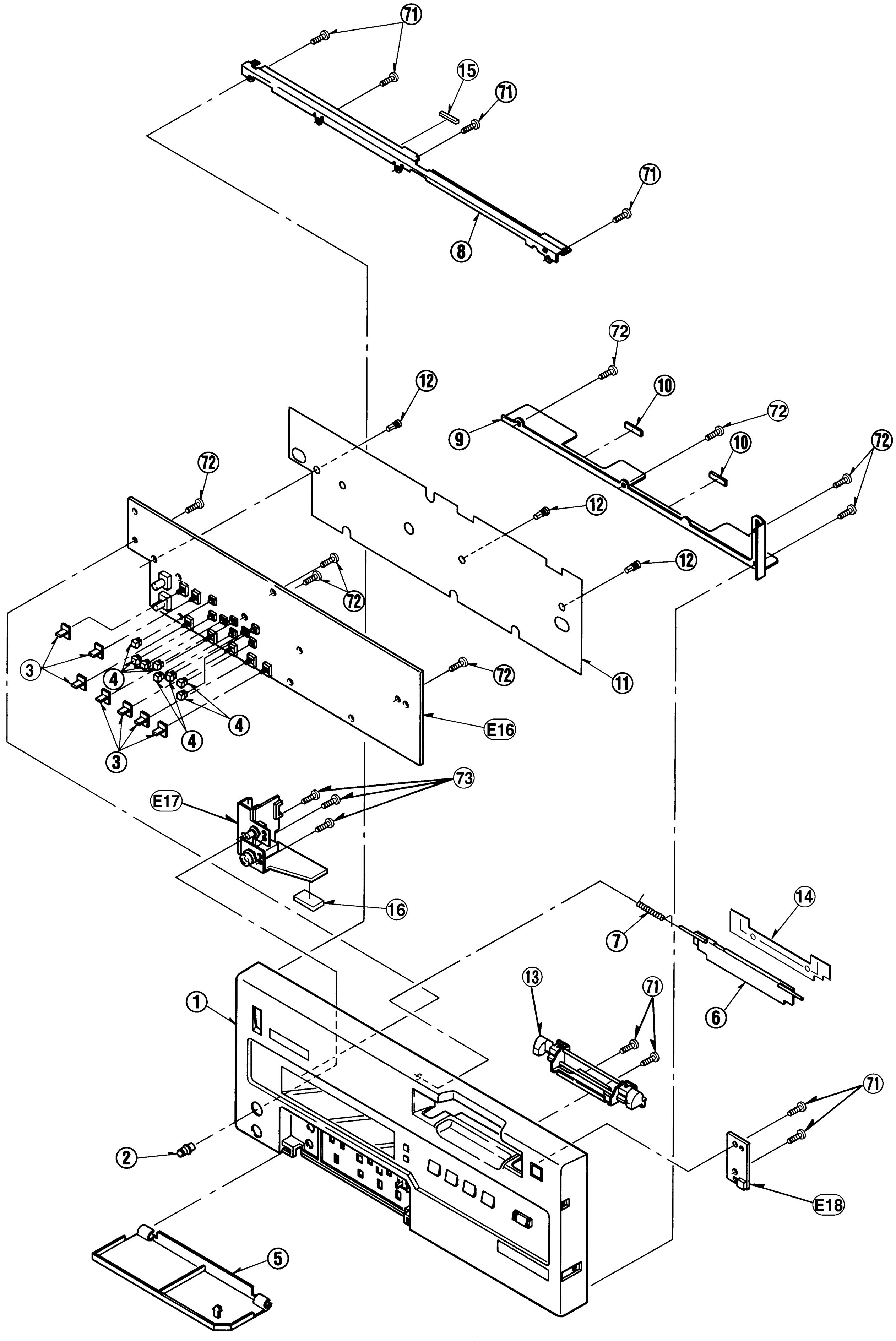
CASING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP7585	TOP PANEL	1	
2	VMP6805	P.C.B. PLATE L	1	
3	VMT1222	P.C.B. RUBBER CUSHION L	2	
6	VMX2510	SPACER	2	
7	VMZ2325	TOP PANEL BARRIER	1	
8	VGM1699	SIDE PANEL	2	
9	VKU0546	BOTTOM PLATE	1	
10	VMX1558	NYLON WASHER	1	
14	VMP5265	CARRIAGE SUPPORT METAL	1	
15	VXA6591	MECHA DUST PROOF (U)ASS'Y	1	
16	VGF0816	INSULATION SHEET	1	
17	VGU8108	EJECT BUTTON	1	
18	VGU7423	OPERATION BUTTON B	1	
19	VGU7422	OPERATION BUTTON A	1	
20	VMT0797	GASKET C	5	
22	VMT0847	GASKET	1	
71	VHD0775	SCREW	2	
72	XSB3+8FZ	SCREW	4	
73	XSB4+8FC	SCREW	8	
74	XTV3+6F	SCREW	4	
75	XYN3+K8	SCREW	1	
76	XYE3+EF6	SCREW	6	

FRONT PANEL ASSEMBLY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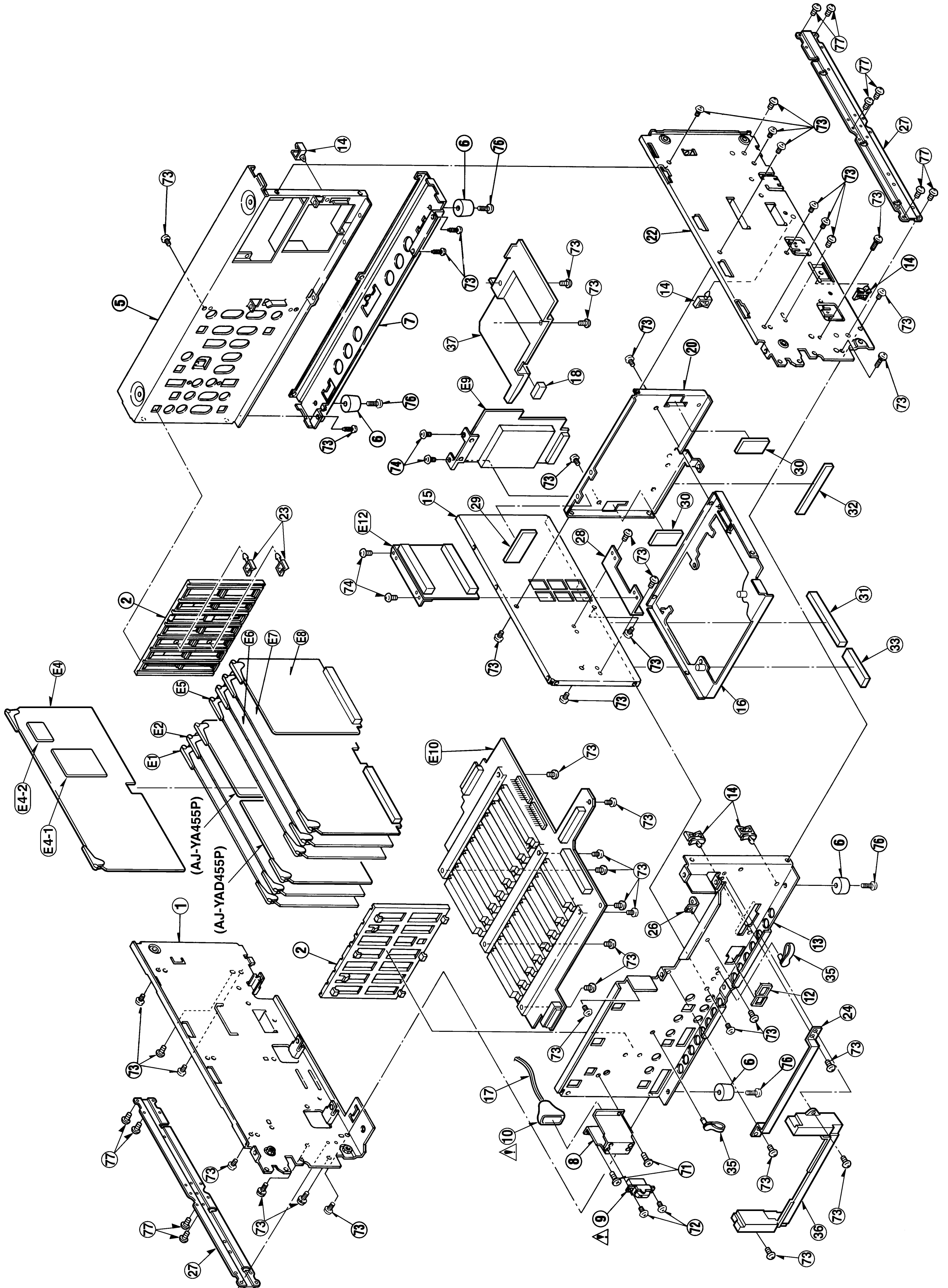
FRONT PANEL ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP8126	FRONT PANEL (1) ASS'Y	1						
2	VGU5334	LEVER VR KNOB	1						
3	VGU6516	SLIDE SW KNOB (L)	7						
4	VGU7459	TACT SW KNOB	8						
5	VKF3100	FRONT DOOR	1						
6	VKF2785	BLINDER PANEL	1						
7	VMB2923	BLINDER SPRING	1						
8	VMP4864	UPPER FRONT PANEL ANGLE	1						
9	VMP6810	PANEL SUPPORT ANGLE	1						
10	VMT0800	GASKET	2						
11	VMZ3143	INSULATION SHEET	1						
12	VJF0108	SPACER	3						
13	VYQ2244	CASSETTE GUIDE ASS'Y	1						
14	VGF0836	PANEL SHEET	1						
15	VMT0847	GASKET	1						
16	VMT0493	CUSHION	1						
71	XTV3+8G	SCREW	8						
72	XTN4+10G	SCREW	8						
73	XTV3+6GFZ	SCREW	3						
E16	VEP86315A	FRONT P.C.BOARD	1						
E17	VEP80C15A	HEAD PHONE P.C.BOARD	1						
E18	VEP80C16A	EJECT P.C.BOARD	1						

CHASSIS FRAME ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



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CHASSIS FRAME ASSEMBLY

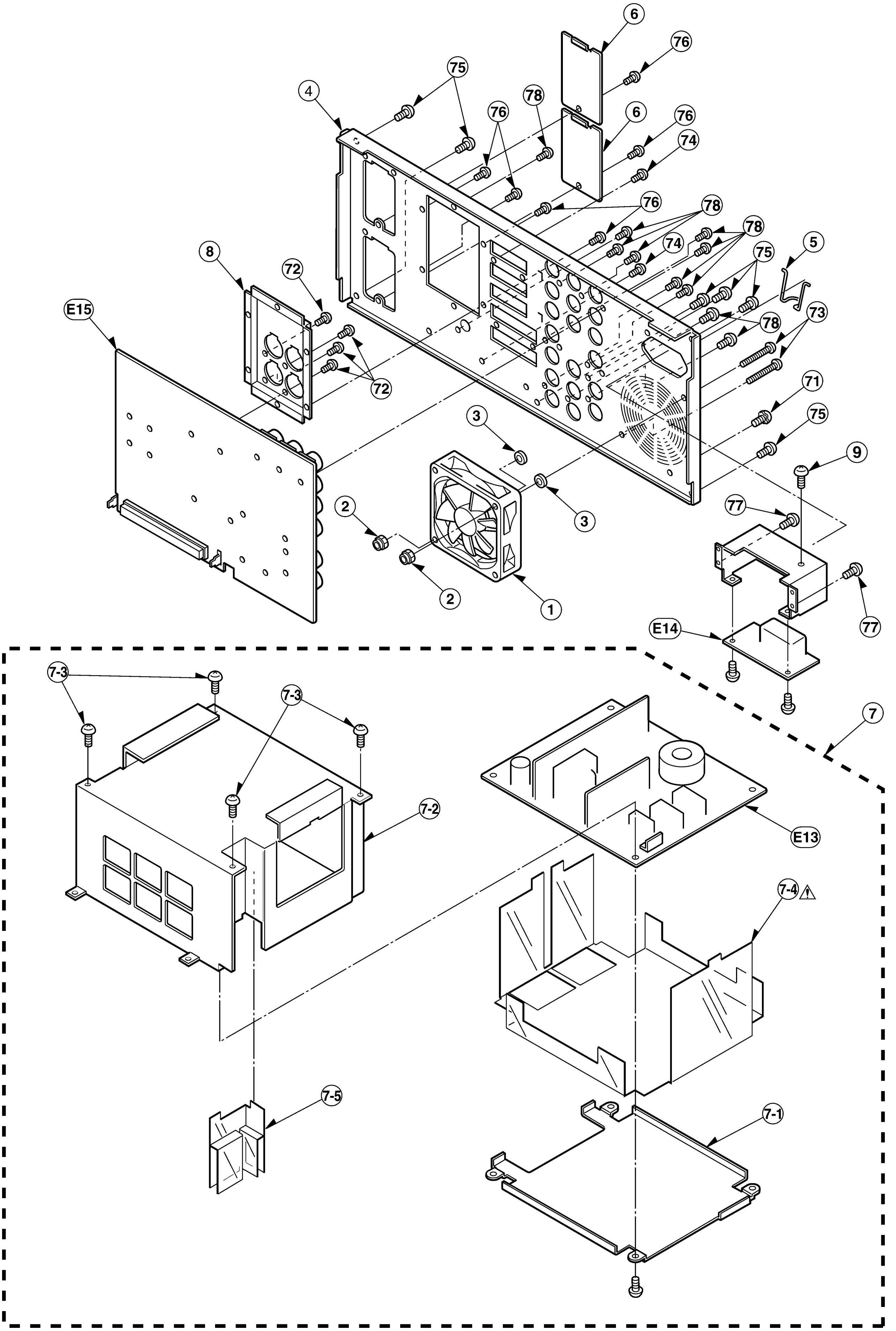
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP6832	SIDE FRAME (L)	1	
2	VGQ4011	P.C.BOARD GUIDE RAIL A	2	
5	VMP6802	REAR FRAME	1	
6	VKA0117	PLASTIC FOOT	4	
7	VMP6020	BOTTOM FRAME	1	
8	VMP4881	SW BRACKET	1	
⚠ 9	EST15372T	POWER SWITCH	1	
⚠ 10	VMZ0580	SW COVER	1	
12	VJF1259	EDGE HOLDER	1	
13	VMP6803	FRONT FRAME	1	
14	VJF0384	CLAMPER	5	
15	VMP6800	CENTER FRAME	1	
16	VXA7029	MECHA FRAME ASS'Y	1	
⚠ 17	VEE0N56	AC CABLE	1	
18	VMT0968	DUST PROOF CUHION (D)	1	
20	VMP6801	MIDDLE FRAME	1	
22	VMP6833	SIDE FRAME (R)	1	
23	VJF0384	CLAMPER	2	
24	VMP6126	MECHA DUST PROOF (F)ASS'Y	1	
26	VMP5298	SUB P.C.B. HOLDER ANGLE	1	
27	VMP6248	RACK MOUNT	2	
28	VMP6807	MECHA EXT FIX ANGLE	1	
29	VMT1014	DUST PROOF CUSHION (A)	1	
30	VMT1219	DUST PROOF CUSHION (A)	2	
31	VMT1044	DUST PROOF CUSHION (L)	1	
32	VMT0965	DUST PROOF CUSHION (A)	1	
33	VMT1043	DUST PROOF CUSHION (K)	1	
35	VJF0469	CLAMPER	2	
36	VXA6625	MECHA DUST PROOF (F)ASS'Y	1	
37	VXA7032	MECHA SHIELD (L) ASS'Y	1	
71	VHD5013	SCREW	2	
72	XTN3+6F	SCREW	2	
73	XTV3+6F	SCREW	44	
74	XTV3+6FFR	SCREW	4	
76	XYNV3+K12S	SCREW	4	
77	XTV4+6F	SCREW	12	
E1	VEP84374A	F1 AUDIO P.C.BOARD	1	
E2	VEP83557A	F2 V OUT P.C.BOARD	1	
E4	VEP83554A	F4 D PROC P.C.BOARD	1	
E4-1	VEP83555A	CSP SUB P.C.BOARD	1	FOR VEP83554A
E4-2	VSI3554A	DV UCOM P.C.BOARD	1	FOR VEP83554A
E5	VEP83553A	F5 V IN P.C.BOARD	1	
E6	VEP86314A	F6 SYSCON P.C.BOARD	1	
E7	VEP82238A	F7 SERVO P.C.BOARD	1	
E8	VEP85196A	F8 RF EQ P.C.BOARD	1	
E9	VEP85197A	RF CUE P.C.BOARD	1	
E10	VEP80C14A	MOTHER P.C.BOARD	1	
E12	VEP82240A	MECHA I/F 2 P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

REAR PANEL ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



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REAR PANEL ASSEMBLY

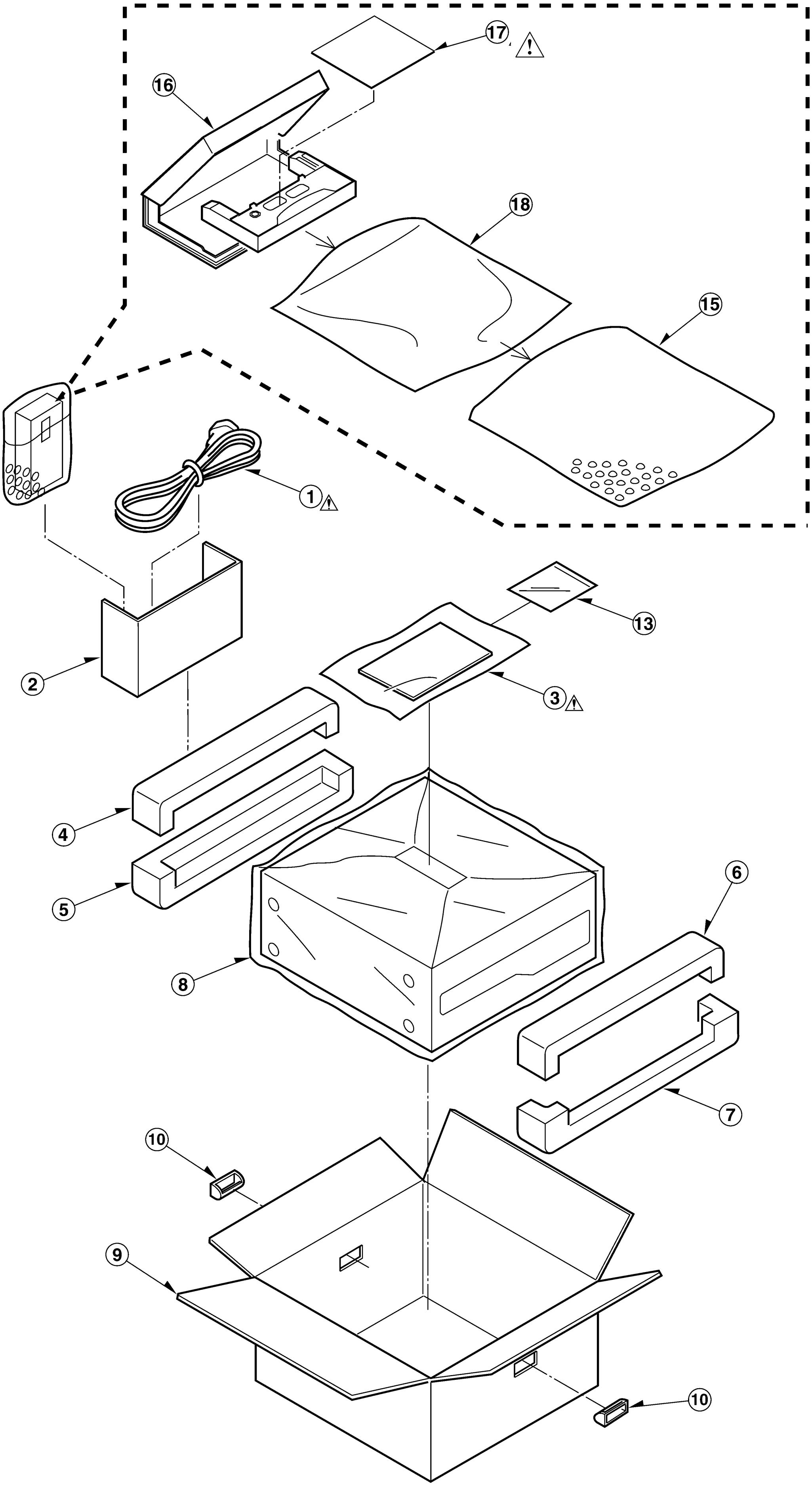
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VRF0190	FAN MOTOR	1	L6FALEFH0007
2	VHN0063	NYLON NUT	2	
3	VMX0835	SPACER	2	
4	VJH1193	JACK PANEL	1	
5	VML2903	AC CORD HOOK	1	
6	VMP5032	OPTION PANEL	2	
7	VEK9276	POWER ASS'Y	1	
7-1	VSC5223	POWER CASE (LOWER)	1	
7-2	VSC5224	POWER CASE (UPPER)	1	
7-3	XYN3+F8	SCREW	4	
⚠ 7-4	VMZ3147	POWER BARRIER	1	
7-5	VMZ3148	POWER BARRIER B	1	
8	VMP6811	XLR HOLDER ANGLE	1	
9	XYN4+E6VW	SCREW	1	
71	XYE4+EF8	SCREW	1	
72	XSN26+6FZ	SCREW	4	
73	XSN4+35FC	SCREW	2	
74	XTN26+6FFZ	SCREW	5	
75	XTV3+6F	SCREW	6	
76	XTV3+6FFZ	SCREW	6	
77	XTV3+6FFR	SCREW	6	
78	XTV3+10GFZ	SCREW	10	
E13	VEP81221A	POWER 1 P.C.BOARD	1	
E14	VEP81222A	POWER 2 P.C.BOARD	1	
E15	VEP80C13A	AV JACK P.C.BOARD	1	

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

AJ-CS455P



PACKING PARTS ASSEMBLY

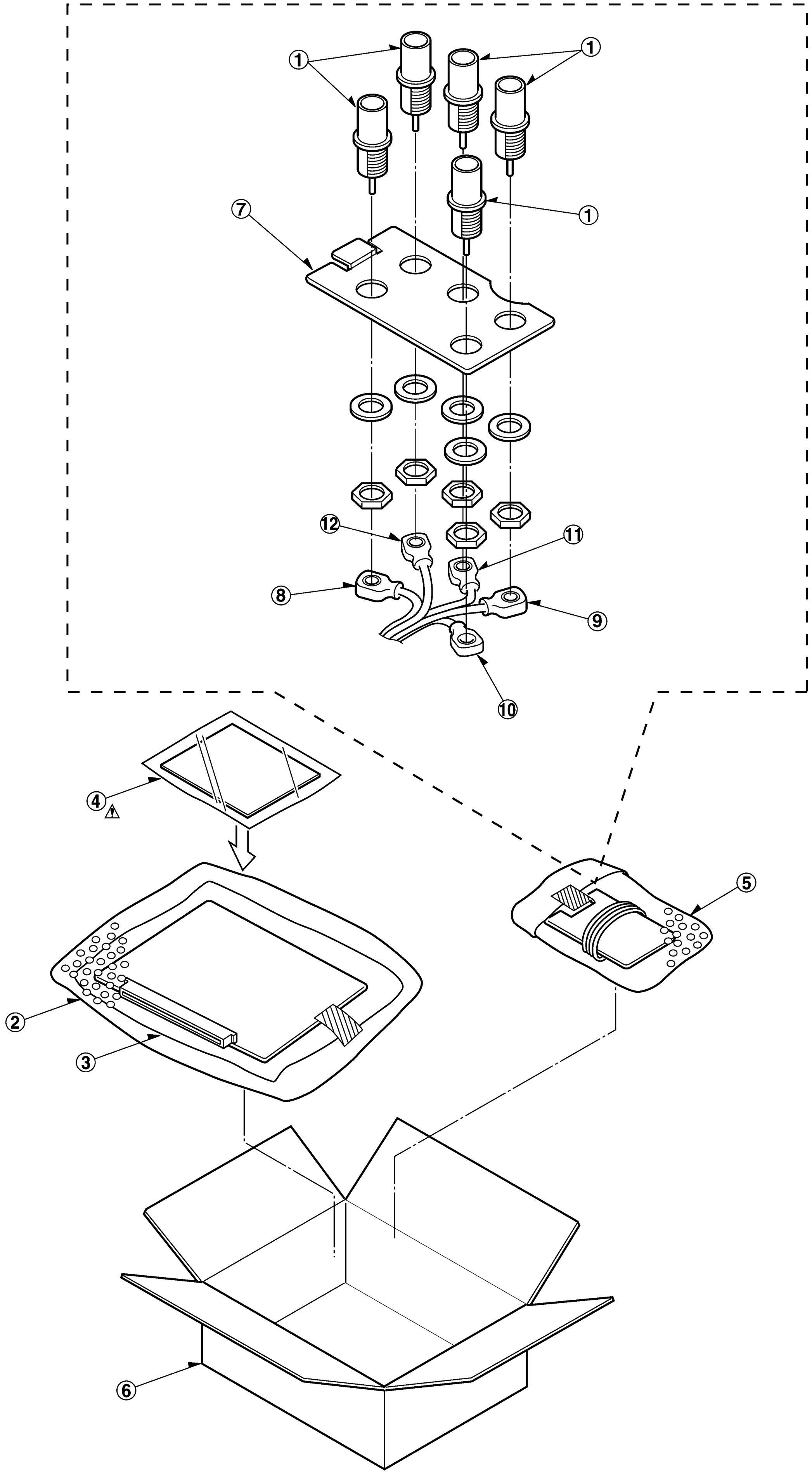
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VJA0488	POWER CODE	1	K2CG3CH00001
2	VPN4305	ACCESSORY PAD	1	
⚠ 3	VQT9172	OPERATING INSTRUCTIONS	1	
4	VPN4302	CUSHION UL	1	
5	VPN4304	CUSHION LL	1	
6	VPN4606	CUSHION	1	
7	VPN4607	CUSHION LR	1	
8	VPF0277	POLYETHYLENE BAG	1	
9	VPG0J45	PACKING CASE	1	
10	VPF0149	CASE HANDLE HOLE COVER	2	
13	VXF0173	EMARGENCY EJECT ASS'Y	1	
15	VPF0679	AIR BAG	1	
16	VPK1856	M CASSETTE SOFT CASE	1	
⚠ 17	VQT9175	OPERATING INSTRUCTIONS	1	
18	VPF0887	POLYETHYLENE BAG	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-YA455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



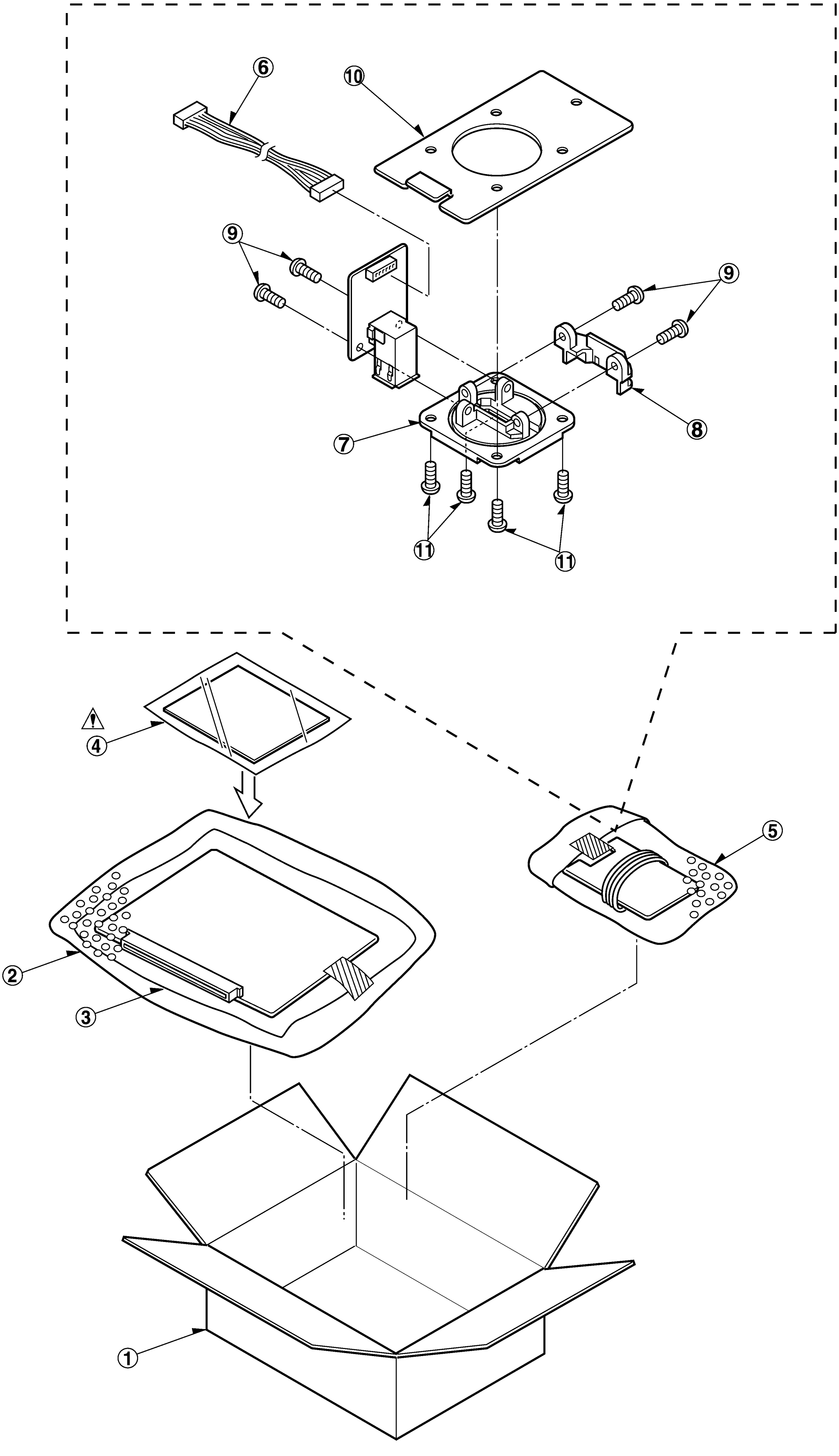
PACKING PARTS ASSEMBLY (AJ-YA455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VJS3462	CONNECTOR (FEMALE)	5	K1SMBDBA0002
2	VPF0678	AIR CAP BAG	1	
3	VPF0359	POLYETHYLENE BAG	1	
⚠ 4	VQT9173	OPERATING INSTRUCTIONS	1	
5	VPF0679	AIR CAP BAG	1	
6	VPG6296	PACKING CASE	1	
7	VMP5900	JACK PANEL	1	
8	VEE9651	SR IN	1	K1RZBBB00003
9	VEE9653	SR OUT 3	1	K1RZBBB00006
10	VEE9652	SR THROUGH	1	K1RZBBB00008
11	VEE9654	SR OUT 2	1	K1RZBBB00009
12	VEE9655	SR OUT 1	1	K1RZBBB00007

PACKING PARTS ASSEMBLY (AJ-YAD455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-YAD455P)

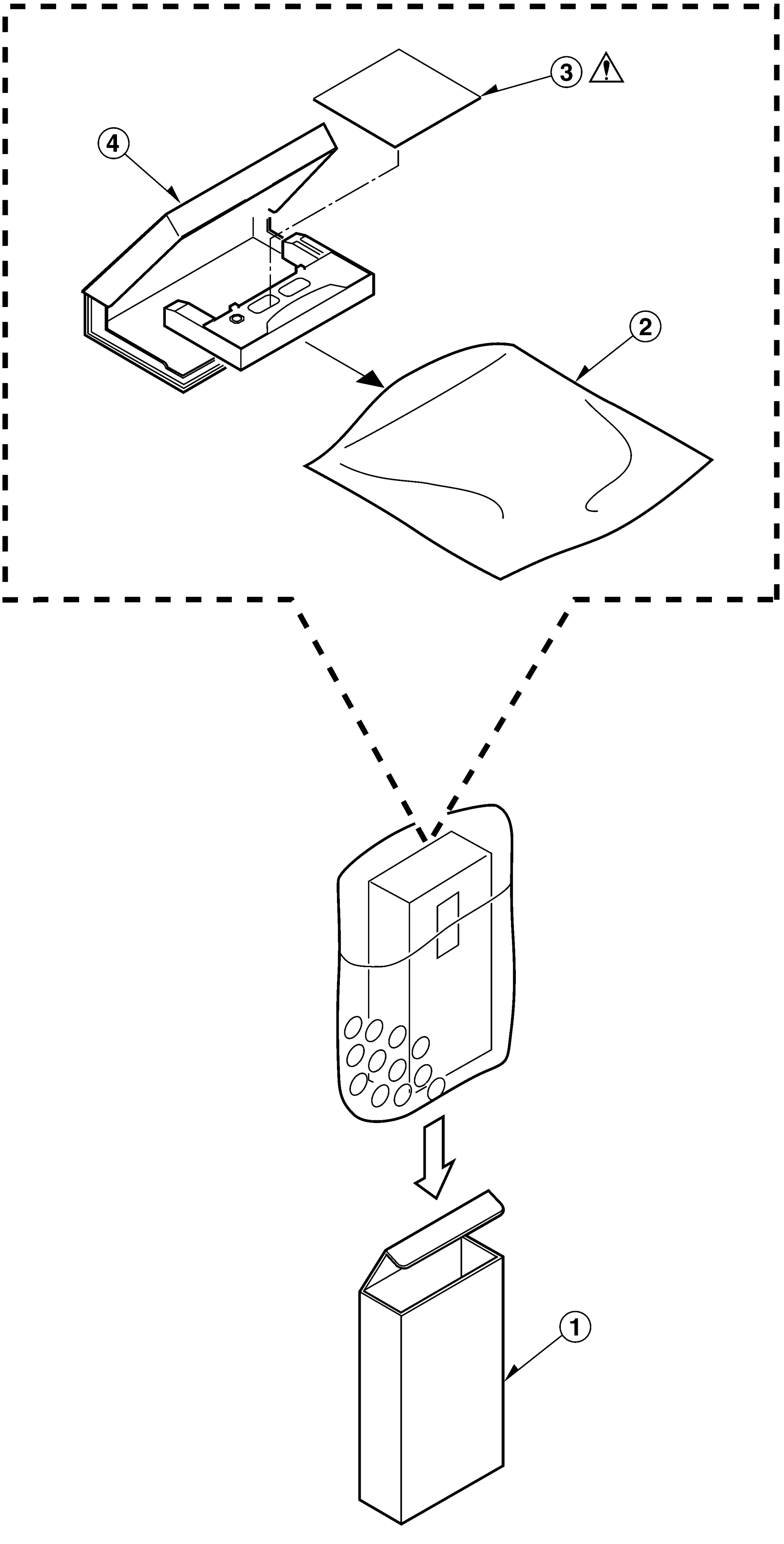
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG6296	PACKING CASE	1	
2	VPF0678	AIR CAP BAG	1	
3	VPF0359	POLYETHYLENE BAG	1	
⚠ 4	VQT9174	OPERATIONG INSTRUCTIONS	1	
5	VPF0679	AIR CAP BAG	1	
6	VEE0N57	CABLE	1	
7	VJF1344	CONNECTOR HOLDER (1)	1	
8	VJF1345	CONNECTOR HOLDER (2)	1	
9	XYN2+J6	SCREW	4	
10	VMP6821	JACK PANEL	1	
11	XTN3+6FFY	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-CS455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-CS455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG8753	PACKING CASE	1	
2	VPF0887	POLYETHYLENE BAG	1	
⚠ 3	VQT9175	OPERATING INSTRUCTIONS	1	
4	VPK1856	M CASSETTE SOFT CASE	1	

ELECTRICAL REPLACEMENT PARTS LIST (AJ-D455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP84374A	F1 AUDIO P.C.BOARD	1	(RTL)
■ E2	VEP83557A	F2 V OUT P.C.BOARD	1	(RTL)
■ E4	VEP83554A	F4 D PROC P.C.BOARD	1	(RTL)
■ E4-1	VEP83555A	CSP SUB P.C.BOARD	1	(RTL)FOR VEP83554A
■ E4-2	VSI3554A	DV UCOM P.C.BOARD	1	FOR VEP83554A
■ E5	VEP83553A	F5 V IN P.C.BOARD	1	(RTL)
■ E6	VEP86314A	F6 SYSCON P.C.BOARD	1	(RTL)
■ E7	VEP82238A	F7 SERVO P.C.BOARD	1	(RTL)
■ E8	VEP85196A	F8 RF EQ P.C.BOARD	1	(RTL)
■ E9	VEP85197A	RF CUE P.C.BOARD	1	(RTL)
■ E10	VEP80C14A	MOTHER P.C.BOARD	1	(RTL)
■ E11	VEP82239A	MECHA I/F P.C.BOARD	1	(RTL)
■ E12	VEP82240A	MECHA I/F 2 P.C.BOARD	1	(RTL)
■ E13	VEP81221A	POWER 1 P.C.BOARD	1	(RTL)
■ E14	VEP81222A	POWER 2 P.C.BOARD	1	(RTL)
■ E15	VEP80C13A	AV JACK P.C.BOARD	1	(RTL)
■ E16	VEP86315A	FRONT P.C.BOARD	1	(RTL)
■ E17	VEP80C15A	HEAD PHONE P.C.BOARD	1	(RTL)
■ E18	VEP80C16A	EJECT P.C.BOARD	1	(RTL)
■ E19	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
■ E1	VEP84374A	F1 AUDIO P.C.BOARD	1	(RTL)
C4102,03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4104-07	ECEA1HGE330	E.CAPACITOR 50V 33U	4	
C4108,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4110,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4124,25	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4131,32	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C4133-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4143-46	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4200,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4202-05	EEVHB1C220	E.CAPACITOR 16V 22U	4	
C4206	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4207,08	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4209,10	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	2	
C4211	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4212,13	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4214,15	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	2	
C4216	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4217	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4218	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4220	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4221,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4223	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4224-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4228-30	EEVHB1C220	E.CAPACITOR 16V 22U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4231	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4235-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4239,40	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4290	ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C4320,21	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4400	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4401	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4402	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4403	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4404	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C4407-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4411,12	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4417	EEVHP1C100	E.CAPACITOR 16V 10U	1	
C4419,20	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4427-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4431,32	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4506,07	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4508,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4510,11	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4512,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4514,15	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4516-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4520,21	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4522,23	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	2	
C4524-27	ECA1CHG471	C.CAPACITOR 16V 470U	4	
C4700	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4701,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4703,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4705-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C4805,06	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	2	
C4807	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C4809,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4812	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4814	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4816,17	ECHU1C104J	P.CAPACITOR 16V 0.1U	2	
C4819-21	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	3	
C4822	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4823	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4824	ECST1VY104Z	T.CAPACITOR CH 35V 0.1U	1	
C4825	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4826	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C4827	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4828	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4829-32	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4833,34	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4835	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4836	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4837	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4839,40	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4841	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4900	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4903	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4904	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4905	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4906,07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4908	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4909	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4910	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4911	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4912	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4913	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4914	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4915	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
D4100-03	MA157	DIODE	4	
D4104	MA716	DIODE	1	
D4400	MA147	DIODE	1	
D4401-03	MA142WK	DIODE	3	
D4404	MA716	DIODE	1	
D4406	MA716	DIODE	1	
D4407	MA142WK	DIODE	1	
D4800	MA716	DIODE	1	
D4900	MA152A	DIODE	1	
D4901	MA157	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
FL4700,01	VLF1466B223	LINE FILTER	2	
IC4100	C0ABBB000184	IC	1	
IC4101	THC4052FT	IC	1	
IC4102,03	C0ABBB000184	IC	2	
IC4104	THC4052FT	IC	1	
IC4105	C0ABBB000184	IC	1	
IC4106	THC4052FT	IC	1	
IC4107,08	C0ABBB000184	IC	2	
IC4109	THC4052FT	IC	1	
IC4110	XC62FP5002P	IC	1	
IC4111	XC62DN5002P	IC	1	
IC4200,01	NJM2100MD	IC	2	
IC4202	NVHC541MTCX	IC	1	
IC4204	C0FBZJ000003	IC	1	
IC4206	XC62FP5002P	IC	1	
IC4207	XC62FP3302P	IC	1	
IC4300	THC4052FT	IC	1	
IC4301	C0ABBB000184	IC	1	
IC4303	THC4052FT	IC	1	
IC4304	C0ABBB000184	IC	1	
IC4400	C0ABBB000184	IC	1	
IC4401	THC4052FT	IC	1	
IC4402	NJM4556AM	IC	1	
IC4403	XC62FP5002P	IC	1	
IC4404	XC62DN5002P	IC	1	
IC4407	XC62FP5002P	IC	1	
IC4408	XC62DN5002P	IC	1	
IC4410	NJM4556AM	IC	1	
IC4411	C0ABBB000184	IC	1	
IC4500	THC4052FT	IC	1	
IC4502,03	NJM4556AM	IC	2	
IC4504	THC4052FT	IC	1	
IC4506,07	NJM4556AM	IC	2	
IC4700	NVHC245MTCX	IC	1	
IC4701	EPM3256A1410	IC	1	
IC4800-02	C0ABBB000184	IC	3	
IC4803	TC4W53FU	IC	1	
IC4804	CXA1552M	IC	1	
IC4805	XC62FP5002P	IC	1	
IC4806	XC62DN5002P	IC	1	
IC4807	THC4052FT	IC	1	
IC4808	TC4W53FU	IC	1	
IC4809	NJM78L09UA	IC	1	C0CBAHC00002
IC4900	C0ABBB000184	IC	1	
IC4901	TC4W53FU	IC	1	
IC4902	C0FBZH000011	IC	1	
IC4903	XC62FP3302P	IC	1	
IC4904-06	C0ABBB000184	IC	3	
IC4907	THC4052FT	IC	1	
ID0	VVVSI3568	SOFTWARE	1	
P4001	K1KA96B00032	CONNECTOR (MALE)	1	
P4700	VJP3125B008	CONNECTOR (MALE)	1	
Q4400-03	2SB1219A-R	TRANSISTOR	4	
Q4404	2SD1328	TRANSISTOR	1	
Q4406,07	2SD1328	TRANSISTOR	2	
Q4500	2SD602A-R	TRANSISTOR	1	
Q4501	2SB710A-R	TRANSISTOR	1	
Q4502-07	2SD1328	TRANSISTOR	6	
Q4900-02	2SD1328	TRANSISTOR	3	
QR4201	UN5213	TRANSISTOR-RESISTOR	1	
QR4400,01	UN5213	TRANSISTOR-RESISTOR	2	
R4100,01	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4102,03	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4104-07	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	
R4108-11	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	4	
R4112	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4113	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4114	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4115	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4116	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4117	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4118	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4119	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4120	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4121	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4122	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4123	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4124	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4125	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4126	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4127	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4128	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4129	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4130	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4131	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4132	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4133	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4134	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4135	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4136-41	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4142,43	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R4144,45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4146,47	ERJ3RED470	M.RESISTOR CH 1/16W 47	2	
R4148,49	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4150,51	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4152,53	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R4154,55	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4156,57	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4158,59	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4160	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4161	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4162	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4163	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4164	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4165	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4166	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4167	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4168	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4169	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4170	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4171	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4172	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4173	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4174	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4175	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4176,77	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4178,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4180-83	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4186-89	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4200	D1H84704A008	COMBI.R-R	1	
R4201	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4203,04	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4205,06	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4207,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4209,10	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R4211,12	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4213-16	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4217-20	ERJ3RBD331	M.RESISTOR CH 1/16W 330	4	
R4221	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4222,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4224	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4226	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4227	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4228,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4231,32	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4233-37	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	5	
R4238-41	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R4300,01	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4302	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4304,05	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4308	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4309	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4310	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4311	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4312	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4313	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4314	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4315	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4324	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4325	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4326	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4327	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4328	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4329	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4344-46	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	3	
R4364,65	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	2	
R4368,69	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4372,73	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4378-80	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4382,83	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4386,87	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4392,93	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4396	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4403,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4405	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4406	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4407	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4409	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4410,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4412,13	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4414	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4415	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4416	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4418	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4419	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4420	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4421	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4424,25	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4427,28	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4431	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4433	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4437	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4439	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4440	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R4442	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4443-45	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R4447	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4448	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4451	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4452	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4453	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4454	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4456,57	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4459	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4500,01	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4502,03	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4504	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4505	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4506	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4507	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4508	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4509	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4510	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4511	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4512,13	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4514	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4515	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4516	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4517	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4518	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4519	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4520	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4521,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4523	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4524,25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4526,27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4530,31	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4532,33	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4534,35	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4536-43	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4544-47	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4548,49	ERJ3RED150	M.RESISTOR CH 1/16W 15	2	
R4550-53	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4554,55	ERJ3RED150	M.RESISTOR CH 1/16W 15	2	
R4556-59	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4560-63	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4564-67	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4568-73	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R4700	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4702	D1H84734A008	COMBI.R-R	1	
R4703	D1H810240001	COMBI.R-R	1	
R4704	D1H84734A008	COMBI.R-R	1	
R4705,06	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R4707,08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4710	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4712,13	D1H84734A008	COMBI.R-R	2	
R4715-17	D1H84734A008	COMBI.R-R	3	
R4803	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4805	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4808	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4809	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4812	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4813	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R4814	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4815	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4819	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4820	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4823	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R4825	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4826	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4827	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4829	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4832	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4835	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4836	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4837	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4838	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4839	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4840	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4841	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4842-45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R4847	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4848	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4850	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4851	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4852	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4853	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4900	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4901,02	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R4903	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4904	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4905	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4906	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4907,08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4909	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4910	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R4911	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R4912	ERJ3RED124	M.RESISTOR CH 1/16W 120K	1	
R4913	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4914	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4915	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4916	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4917	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R4918	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4919	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4920	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4921	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4922	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4923	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4924	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R4925	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R4926	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4927	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1	
R4928	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R4929	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4930,31	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R4932	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4933	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4934	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4935	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R4936	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4937	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4938	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4939	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4940	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4941	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4942	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4943,44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4945	D1H84704A008	COMBI.R-R	1	
R4946	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
SW4100,01	VSS0126	SWITCH	2	
TG4100	EYF6CU	TEST POINT	1	
TG4200	EYF6CU	TEST POINT	1	
TG4500	EYF6CU	TEST POINT	1	
TG4800	EYF6CU	TEST POINT	1	
TP4200,01	EYF6CU	TEST POINT	2	
TP4300,01	EYF6CU	TEST POINT	2	
TP4400	EYF6CU	TEST POINT	1	
TP4500,01	EYF6CU	TEST POINT	2	
TP4801	EYF6CU	TEST POINT	1	
TP4901	EYF6CU	TEST POINT	1	
VR4200,01	EVMEGSA00B14	V.RESISTOR 10K	2	
VR4300,01	EVMEGSA00B14	V.RESISTOR 10K	2	
VR4800	EVMEGSA00B54	V.RESISTOR 50K	1	
VR4802	EVMEGSA00B24	V.RESISTOR 20K	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E2	VEP83557A	F2 V OUT P.C.BOARD	1	(RTL)
C104	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C105	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C106	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C107	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C150-52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C153	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C200-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C206	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C207,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C209	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C210-22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C230	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C231-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C260-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C300,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C302	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C304	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C305	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C306	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C307	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C308	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C309,10	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	2	
C311	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C313,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C316	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C318	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C320	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C321	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C322,23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C324	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C325-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C330,31	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	2	
C332-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C338	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C339	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C340,41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C342	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C400-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C404,05	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C406-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C410,11	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	2	
C412,13	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C416,17	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C418-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C422	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C423-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C431-33	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	3	
C434-36	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	3	
C440-43	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C444,45	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C446,47	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C448	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C449-53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C454	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C455	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C456	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C457	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C458	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C459	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C460	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C461	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C462	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C463	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C464-69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C470	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C471-77	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C479	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C480-83	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C486-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C490	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C491	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C492,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C494	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C499	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C500-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C508-11	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C512	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C513	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C514	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C516	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C517-29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C530-34	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	5	
C535-39	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	5	
C540	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C561,62	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C563	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C564	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C565	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C566,67	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C568	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C569	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C570,71	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C572	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C573	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C574-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C577	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C578,79	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C580-83	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C587	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C589	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C590,91	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C592,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C600,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C602	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C603,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C605-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C608	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C609	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C610-12	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C613,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C615,16	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C617,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C619	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C620,21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C623-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C626	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C627,28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C630	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C631	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C632	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C633	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C634,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C636	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C637	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C638	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C639	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C640	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C642	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C644	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C700,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C703-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C707	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C800	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
D400-02	MA3068-M	DIODE	3	
D500-04	MA3068-M	DIODE	5	
D560	MA142WK	DIODE	1	
D561	MA716	DIODE	1	
D600	MA142K	DIODE	1	
D601	MA335-R	DIODE	1	
D602	MA142K	DIODE	1	
D700	LN1251CAL	DIODE	1	
FL302,03	VLF1476	FILTER	2	J0E3504B0004
FL304	VLF1354	FILTER	1	
FL450	VLF1354	FILTER	1	
FL453	VLF1354	FILTER	1	
IC150,51	NVHC541MTCX	IC	2	
IC152	NVHC245MTCX	IC	1	
IC200	C1ZBZ0001836	IC	1	
IC201	C0CBAAB00021	IC	1	
IC203,04	NVHC541MTCX	IC	2	
IC230	UPD65944G020	IC	1	
IC260-62	NVHC541MTCX	IC	3	
IC263	74LCX240MTCX	IC	1	
IC300	XC62FP5002P	IC	1	
IC301	C0ZBZ0000505	IC	1	
IC303	XC62FP5002P	IC	1	
IC304	XC62DN5002P	IC	1	
IC305	NJM2534V	IC	1	
IC400	XC62FP5002P	IC	1	
IC401	XC62DN5002P	IC	1	
IC402	XC62FP5002P	IC	1	
IC403	XC62DN5002P	IC	1	
IC404-06	AD8055AR	IC	3	
IC450	XC62FP5002P	IC	1	
IC451	XC62DN5002P	IC	1	
IC452	XC62FP5002P	IC	1	
IC453	NJM2534V	IC	1	
IC454	XC62DN5002P	IC	1	
IC455	AD8055AR	IC	1	
IC456	XC62FP5002P	IC	1	
IC457	XC62DN5002P	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC458	XC62FP5002P	IC	1	
IC459	XC62DN5002P	IC	1	
IC460,61	AD8055AR	IC	2	
IC500	XC62FP5002P	IC	1	
IC501	XC62DN5002P	IC	1	
IC502	XC62FP5002P	IC	1	
IC503	XC62DN5002P	IC	1	
IC504	NJM2534V	IC	1	
IC505	TVHT08FT	IC	1	
IC560	NJM78L09UA	IC	1	C0CBAHC00002
IC561	AN91A12S	IC	1	
IC562	XC62FP5002P	IC	1	
IC563	XC62DN5002P	IC	1	
IC564	NJM360M	IC	1	
IC566	TVHT04FT	IC	1	
IC567	TVHT00F	IC	1	
IC568	SN74LS221NS	IC	1	
IC600	THC4053FT	IC	1	
IC601	NJM082BV	IC	1	
IC603	NJM082BV	IC	1	
IC604	XC62FP5002P	IC	1	
IC605	XC62DN5002P	IC	1	
IC606	NJM082BV	IC	1	
IC607	TVHC125FT	IC	1	
IC608	NJM360M	IC	1	
IC700	UPD65650J203	IC	1	C1ZBZ0001380
IC701,02	TVHT244FT	IC	2	
ID0	VVVSI3559A	SOFTWARE	1	
IP202	C1ZBZ0001555	IC	1	
L100,01	VLF1151A132	COIL	2	
L400,01	VLQ0163J560	COIL 56UH	2	
L402	VLQ0163J120	COIL 12UH	1	G1C120J00001
L450	VLQ0163J120	COIL 12UH	1	G1C120J00001
L500	VLQ0163J180	COIL 18UH	1	G1C180J00001
L560	VLQ0163J101	COIL 100UH	1	
L561	VLQ0163J221	COIL 220UH	1	G1C221J00003
L562	VLQ0163J680	COIL 68UH	1	
L600	VLQ0163J470	COIL 47UH	1	
L601	VLQ0163J221	COIL 220UH	1	G1C221J00003
L602-05	VLQ0163J470	COIL 47UH	4	
P1,P2	K1KA96B00032	CONNECTOR (MALE)	2	
P3	VJP3125B008	CONNECTOR (MALE)	1	
Q300	2SB709A	TRANSISTOR	1	
Q301-05	2SD601A	TRANSISTOR	5	
Q306-08	2SB709A	TRANSISTOR	3	
Q309-13	2SD601A	TRANSISTOR	5	
Q314	2SA1532-B	TRANSISTOR	1	
Q315	2SB709A	TRANSISTOR	1	
Q400-02	2SB709A	TRANSISTOR	3	
Q403-08	2SD601A	TRANSISTOR	6	
Q450,51	2SB709A	TRANSISTOR	2	
Q452-56	2SD601A	TRANSISTOR	5	
Q457,58	2SB709A	TRANSISTOR	2	
Q459,60	2SA1532-B	TRANSISTOR	2	
Q461	2SB709A	TRANSISTOR	1	
Q462	2SD601A	TRANSISTOR	1	
Q464	2SB709A	TRANSISTOR	1	
Q500	2SA1532-B	TRANSISTOR	1	
Q501-06	2SB709A	TRANSISTOR	6	
Q507-16	2SD601A	TRANSISTOR	10	
Q600	2SB709A	TRANSISTOR	1	
Q601,02	2SK608	TRANSISTOR	2	
QR200	UN5213	TRANSISTOR-RESISTOR	1	
QR300	UN5213	TRANSISTOR-RESISTOR	1	
QR500	UN5113	TRANSISTOR-RESISTOR	1	
QR501	UN5213	TRANSISTOR-RESISTOR	1	
QR700	UN5213	TRANSISTOR-RESISTOR	1	
R100	D1H810240001	COMBI.R-R	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R150,51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R152,53	D1H84734A008	COMBI.R-R	2	
R155	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R203-05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R206,07	D1H810240001	COMBI.R-R	2	
R208	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R209,10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R211,12	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R213	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R230-35	D1H833040002	COMBI.R-R	6	
R260-63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R270-75	D1H833040002	COMBI.R-R	6	
R280-82	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R283-86	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R287	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R300	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R301	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R303	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R305	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R306	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R307	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R308,09	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R312,13	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R315,16	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R317,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R319,20	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R321	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R322	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R323	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R324	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R325	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R326	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R327	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R328	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R329-32	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R333,34	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R335	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R336	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R337	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R338	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R339,40	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R341	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R342	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R343	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R344	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R345	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R346	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R347	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R348,49	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R350	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R351	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R352,53	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R354	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R355	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R358	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R359	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R362	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R363	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R400,01	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R404,05	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R406	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R407	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R408,09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R410	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R411	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R412	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R413	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R414-16	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	3	
R417-19	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3	
R420-22	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R423-25	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	
R426-31	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	6	
R432	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R433	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R434	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R435	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R436	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R437	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R438,39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R440	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R441	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R442-44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R445	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R446	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R447	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R448	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R450	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R451	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R452	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R453	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R454,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R456	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R457	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R459	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R460	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R461	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R462	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R463	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R464	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R465	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R466	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R467	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R469	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R470	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R471	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R472	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R473	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R474	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R475	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R477	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R478	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R479-81	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R482	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R483	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R484,85	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	2	
R487	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R488	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R490	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R491	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R493-95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R500	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R501	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R502	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R503	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R504	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R505	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R507	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R509	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R510	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R511-14	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	4	
R515	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R516-20	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	5	
R521-25	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
R526-30	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	5	
R531-40	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	10	
R541	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R542	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R543	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R544	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R545	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R546	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R547	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R548	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R549	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R550	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R551,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R560	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R561	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R562	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R563	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R564	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R565,66	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R567	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R568	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R569	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R570	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R571	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R575	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R577	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R579,80	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R582	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R600	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R601	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R602	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R605	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R606	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R607	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R608	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R609	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R610,11	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R612	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R613	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R614	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R618	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R620	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R622	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R623	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R624	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R625	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R626	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R627	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R630	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R631	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R632	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R633	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R634,35	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R636	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R637	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R638	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R639	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R641	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R642	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R700-02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R703	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R705	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R800	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R801,02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R908-12	D1H833040002	COMBI.R-R	5	
R913	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG560	EYF6CU	TEST POINT	1	
TG700	EYF6CU	TEST POINT	1	
TP200	EYF6CU	TEST POINT	1	
TP560-62	EYF6CU	TEST POINT	3	
TP600	EYF6CU	TEST POINT	1	
TP701-06	EYF6CU	TEST POINT	6	
VC600	ECV1ZW20X53T	TRIMMER	1	
VR301	EVMEGSA00B12	V.RESISTOR 100	1	
VR302,03	EVMEGSA00B13	V.RESISTOR 1K	2	
VR400-02	EVMEGSA00B12	V.RESISTOR 100	3	
VR451-53	EVMEGSA00B12	V.RESISTOR 100	3	
VR455	EVMEGSA00B12	V.RESISTOR 100	1	
VR456	EVMEGSA00B13	V.RESISTOR 1K	1	
VR560	EVMEGSA00B14	V.RESISTOR 10K	1	
VR600	EVMEGSA00B14	V.RESISTOR 10K	1	
X600	VSX0197	CRYSTAL OSCILLATOR	1	
X601	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
		MISCELLANEOUS		

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E4	VEP83554A	F4 D PROC P.C.BOARD	1	(RTL)
■ E4-1	VEP83555A	CSP SUB P.C.BOARD	1	(RTL)FOR VEP83554A
■ E4-2	VSI3554A	DV UCOM P.C.BOARD	1	FOR VEP83554A
C3021	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3022	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3025-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3029	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3032-34	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C3035	VCEA1AAP101	E.CAPACITOR 10V 100U	1	
C3036-42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3043	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3044-48	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3049-52	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C3053-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3061-63	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C3064-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3067	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3068	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3069	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3071-73	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3074	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3100	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3101,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3104	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3108	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3113,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3117	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3120,21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3121	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3122	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3123	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3124	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3125	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3127	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3177,78	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3190	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3191	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3192	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3193	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3194,95	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3196	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3197,98	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3200-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	FOR VEP83555A
C3207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3208	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3209	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3210,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3212,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	FOR VEP83555A
C3214	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3215,16	ECUX1H030CCV	C.CAPACITOR CH 50V 5P	2	F1H1H3R00021 FOR VEP83555A
C3217-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	FOR VEP83555A
C3222	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
C3223-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3226	ECUX1H090CCV	C.CAPACITOR CH 50V 9P	1	
C3228	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	1	
C3230	EEVHP1E3R3	E.CAPACITOR 25V 3.3U	1	
C3232	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3233	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C3234,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3236	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3237,38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3239	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3240,41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3242	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3243	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3244	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3245	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3246,47	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3248-52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3253	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3254	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3255	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3256	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3257	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3258	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3300,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3303	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3306	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3311,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3318	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3319	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3320-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	FOR VEP83555A
C3331-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3340-49	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3350	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3381-86	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3400,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3402	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3403	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3404	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3405	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3407	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3407,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3408	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3409	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3409,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3411	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3412	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3412	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3413	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3413	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3414-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3420	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3421,22	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3451,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3500	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3501	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3502	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3503	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3504	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3505	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83555A
C3506-02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	FOR VEP83555A
C3512-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3516	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3541-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3631-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3661-65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3701-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3708	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3751-58	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3759	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4200,01	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4202-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C4300-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C4310,11	EEVHB0J101	E.CAPACITOR 6.3V 100U	2	
C4312	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4313	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C4314,15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4316	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4400	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4401-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C4500-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C4505	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4600	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4601,02	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	2	
C4603,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D3021-23	MA701A	DIODE	3	
D3190	MA142K	DIODE	1	
IC3021	LT1086CM	IC	1	C0CBAYG00001
IC3022	XC62FP3202P	IC	1	
IC3025-28	XC62FP3202P	IC	4	
IC3029,30	C0CBAAB00021	IC	2	
IC3031,32	XC62FP2302P	IC	2	
IC3033,34	C0CBAAB00021	IC	2	
IC3035	XC62FP5002P	IC	1	
IC3036	XC62FP2302P	IC	1	
IC3037	XC62DN5002P	IC	1	
IC3071	NVHC245MTCX	IC	1	
IC3072,73	NVHC541MTCX	IC	2	
IC3100	XC62FP2502PR	IC	1	FOR VEP83555A
IC3101	C1AB00000922	IC	1	FOR VEP83555A
IC3121-27	NVHC541MTCX	IC	7	
IC3171,72	NVHC244F	IC	2	
IC3190	NJM082BV	IC	1	
IC3191	74LCX125MTCX	IC	1	
IC3200	MN2MD00006F	IC	1	FOR VEP83555A
IC3201	74LCX125MTCX	IC	1	FOR VEP83555A
IC3202,03	74AHC1GU04CK	IC	2	FOR VEP83555A
IC3221	NJM082BV	IC	1	
IC3222	BH7086KV	IC	1	C1ZBZ0001649
IC3223	74AHC1GU04CK	IC	1	
IC3224	NJM082BV	IC	1	
IC3225,26	74AHC1GU04CK	IC	2	
IC3227	TC7W241FU	IC	1	
IC3228-30	74LCX244MTCX	IC	3	
IC3231	74LCX257MTCX	IC	1	
IC3232-34	74LCX244MTCX	IC	3	
IC3300	C1AB00000922	IC	1	FOR VEP83555A
IC3301	MS51V8221-3G	IC	1	
IC3303	MS51V8221-3G	IC	1	
IC3331	C1ZBZ0001836	IC	1	
IC3381,82	NVHC244F	IC	2	
IC3383,84	C0JBAZ001728	IC	2	
IC3385	NVHC244F	IC	1	
IC3388	NVHC244F	IC	1	
IC3389	74LCX125MTCX	IC	1	
IC3400	MN2MD00006F	IC	1	FOR VEP83555A
IC3401	C1ZBZ0001836	IC	1	
IC3451,52	MS51V8221-3G	IC	2	
IC3500	XC62FP3202P	IC	1	FOR VEP83555A
IC3501	AN3742FHN-EB	IC	1	FOR VEP83555A
IC3511	UPD65943G028	IC	1	
IC3541	DS90LV048A	IC	1	
IC3542	DS90LV047A	IC	1	
IC3631	C1ZBZ0001454	IC	1	
IC3632	NVHC541MTCX	IC	1	
IC3661	C1ZBZ0001454	IC	1	
IC3702	TC7W241FU	IC	1	
IC3752,53	TC7W241FU	IC	2	
IC4200,01	PLL1700E	IC	2	
IC4202	NVHC244F	IC	1	
IC4300	C1ZBZ0001836	IC	1	
IC4302	C1BB00000529	IC	1	
IC4400,01	M5256DVP10VL	IC	2	C3BBFC000171
IC4402	C1AB00001135	IC	1	
IC4500	M5256DVP10VL	IC	1	C3BBFC000171
IC4501	UPD65949G076	IC	1	
IC4600	C0JBAB000244	IC	1	
IC4601,02	AD1893JST	IC	2	
ID0	VVVSI3555A	SOFTWARE	1	
IP3101,02	C1ZBZ0001555	IC	2	
JP3000	VJR1008	EARTH LUG	1	FOR VEP83555A
L3190,91	VLQ0319K470	COIL 47UH	2	G1C470K00013
L3222	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L3223	VLQ0163J120	COIL 12UH	1	G1C120J00001

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L3224-28	VLQ0319K470	COIL 47UH	5	G1C470K00013
L3401,02	VLQ0319K470	COIL 47UH	2	G1C470K00013
L4200,01	VLQ0319K470	COIL 47UH	2	G1C470K00013
L4301-03	VLQ0319K470	COIL 47UH	3	G1C470K00013
P3000	VJS4064N160E	CONNECTOR (FEMALE)	1	K1KAG0A00006 FOR VEP83555A
P3001,02	VJP3454B096	CONNECTOR (MALE)	2	K1KA96B00021
P3101	VJP3125B008	CONNECTOR (MALE)	1	
P3381	VJP4064N160C	CONNECTOR (MALE)	1	K1KBG0A00006
P3471	VJS4106A120L	CONNECTOR (FEMALE)	1	
P3491	VJS4106A120L	CONNECTOR (FEMALE)	1	
R3001	D1H810140001	COMBI.R-R	1	
R3021	ERJ6RBD131	M.RESISTOR CH 1/10W 130	1	
R3022	ERJ6RBD201	M.RESISTOR CH 1/10W 200	1	
R3071	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3072,73	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3074,75	D1H84734A008	COMBI.R-R	2	
R3076,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3100	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3102	D1H810240001	COMBI.R-R	1	
R3103	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3104	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3105	D1H810240001	COMBI.R-R	1	
R3106	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3107	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP83555A
R3115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3116-19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	FOR VEP83555A
R3121	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3123	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3123	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3124	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3125	D1H84704A008	COMBI.R-R	1	
R3125	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3126	D1H84704A008	COMBI.R-R	1	
R3126	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3127	D1H84704A008	COMBI.R-R	1	
R3127	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3128	D1H84704A008	COMBI.R-R	1	
R3129	D1H84734A008	COMBI.R-R	1	
R3132-35	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3136-39	D1H84704A008	COMBI.R-R	4	
R3140	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3141-44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3171,72	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3173-75	D1H84704A008	COMBI.R-R	3	
R3183	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3184,85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3190	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3191	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3192-94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3195	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3196	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3197	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3198,99	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3200	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3200	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83555A
R3201	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3201	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3202	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP83555A
R3204	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP83555A
R3205	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83555A
R3206-08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	FOR VEP83555A
R3209	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3210	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3211	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3212	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3213	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3214,15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83555A
R3216	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	FOR VEP83555A
R3217	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	FOR VEP83555A
R3218,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83555A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3221	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3222	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3222	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3224	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3224	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	FOR VEP83555A
R3225	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3225	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3226	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3227	ERJ3GEYG153	M.RESISTOR CH 1/16W 15K	1	
R3227	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	FOR VEP83555A
R3228	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3228	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	FOR VEP83555A
R3229	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3230	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3231	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3232	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3234	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3237	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3239	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3240	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3241	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3242	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3243	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R3244-46	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R3247	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3248	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3249	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3250	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3251	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3252	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3253	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1	
R3254	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R3255,56	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R3257,58	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R3261-63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R3264-81	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	18	
R3283-85	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R3287	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3300	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3301,02	D1H84704A008	COMBI.R-R	2	
R3303	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3307	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3308	D1H84704A008	COMBI.R-R	1	
R3308	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3309	D1H84704A008	COMBI.R-R	1	
R3309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3310	D1H84734A008	COMBI.R-R	1	
R3310	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3311	D1H84734A008	COMBI.R-R	1	
R3314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3331,32	D1H84704A008	COMBI.R-R	2	
R3333,34	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3337	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3338	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3381	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3383	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3388,89	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3390	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3391	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3394,95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3397	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3400	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3401	D1H84704A008	COMBI.R-R	1	
R3401	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3402	D1H84704A008	COMBI.R-R	1	
R3403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3404	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83555A
R3406	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3407	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3408	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3408	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3409	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3451,52	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3471-74	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	4	
R3475-77	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3478	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R3479-85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	7	
R3491-94	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	4	
R3495-97	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3498	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R3499	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3501	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	FOR VEP83555A
R3502	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83555A
R3504	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	FOR VEP83555A
R3505	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	FOR VEP83555A
R3508	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3511	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3512	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3541-48	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	8	
R3549-56	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R3601	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3633	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3636	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3662	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3701	D1H810240001	COMBI.R-R	1	
R3706	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3707	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3709-11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R3751	D1H810240001	COMBI.R-R	1	
R3757	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3758	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3761-63	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4200,01	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4202	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4203-08	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	6	
R4302	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4303	D1H84734A008	COMBI.R-R	1	
R4700	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG3071-76	EYF6CU	TEST POINT	6	
TP3209	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3211	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3408	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3411	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3471	EYF6CU	TEST POINT	1	
TP3473	EYF6CU	TEST POINT	1	
TP3478	EYF6CU	TEST POINT	1	
TP3491	EYF6CU	TEST POINT	1	
TP3493,94	EYF6CU	TEST POINT	2	
TP3504	EYF6CU	TEST POINT	1	
TP4302,03	EYF6CU	TEST POINT	2	
X3190	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
X3200	VSX0645	CRYSTAL OSCILLATOR	1	FOR VEP83555A
X4600	VSX0519	CRYSTAL OSCILLATOR	1	H0D160500011
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
	VMX2020	P.C.BOARD POST	2	K9ZZ00000689 FOR VEP83555A
	XYN3+K6	SCREW	4	FOR VEP83555A
	VSI3554A	DV MICROCOMPUTER	2	
■ E5	VEP83553A	F5 V IN P.C.BOARD	1	(RTL)
C3001	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3003	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3005-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3008	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3010	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3012	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3013	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3015	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3017	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3018	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3019-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3026,27	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C3028,29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3030-34	EEVHB0J470	E.CAPACITOR 6.3V 47U	5	
C3035-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C3047-52	EEVHB0J470	E.CAPACITOR 6.3V 47U	6	
C3053-57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3058	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3059-61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3062	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3063	ECA1AKF390	E.CAPACITOR 10V 39U	1	
C3109	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3110,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3112,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3115	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3120	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3121-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3124	EEVHB1H4R7	E.CAPACITOR 50V 4.7U	1	
C3125	ECHU1H683JB	P.CAPACITOR 50V 0.068U	1	
C3128	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3130	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C3131	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C3132	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C3134	ECHU1C392J	P.CAPACITOR 16V 3900P	1	
C3135	ECUM1C334KBM	C.CAPACITOR CH 16V 0.33U	1	
C3136	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C3137	ECHU1C152J	P.CAPACITOR 16V 1500P	1	
C3139	ECUX1C684KBM	C.CAPACITOR CH 16V 0.68U	1	
C3140	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3141,42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3144	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C3145	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3160	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3161	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3162	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3163	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3164-68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3169	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3170	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3173	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3175-77	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3178	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3179-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C3190,91	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3192,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3200	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3201-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C3300	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3302	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3303	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3304	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3305,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3307	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3309	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3310-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3314	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3316	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3317	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3318	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3319	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3320	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3321,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3323	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3325-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3332	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3333	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3334	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3335	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3336	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3337	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3338	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3339	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C3340,41	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C3342	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3343-45	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3347	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3401	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C3402	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3403,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3405-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3409	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3410	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3412	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3415	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3416	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3417	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C3418	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3419	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3420	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3421-24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3450	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3451	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3452	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3453	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3454	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3455	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3456	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3457	ECUX1H060DCV	C.CAPACITOR CH 50V 6P	1	
C3458	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3459	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3460	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3461	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3462	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3463	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3464	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3465	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3466	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3467	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3468	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3469	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3470	ECUX1H060DCV	C.CAPACITOR CH 50V 6P	1	
C3471	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3472	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3473	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3474,75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3476	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3477-79	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3480	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3481,82	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C3501	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3502-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3505	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3506	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C3507,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3509,10	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3511	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3514	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3515	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3516,17	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3550,51	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	2	
C3552	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3553	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3554	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C3555	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3556	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3557	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3558	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3559,60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3561	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3562	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3563	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3564	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3565,66	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3567,68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3569	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3570	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3571	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3572	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3573	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3575	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3576,77	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C3578	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3579	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3580	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3600	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3601	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3602,03	EEVHB0J101	E.CAPACITOR 6.3V 100U	2	
C3604	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3605	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3606	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3607	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3630	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3631	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3632	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3633	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3634	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3638-47	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3648	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3649	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3650	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3651-53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3654	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3655	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3656	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3657	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3658,59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3660	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3662	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3663	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3664	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3700	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3701	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3702	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3703	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3704	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3705	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3706	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3707,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3712-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3722	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3723,24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3725	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3726	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3727	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3728	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3729,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3731	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3733	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3734	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3735	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3736	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3800	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3801	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3802	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3803	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3804	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3805	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3806	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3807,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3812-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3822	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3823	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3824	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3825,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3827	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3828	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3829,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3831	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3833	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3834	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3835	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3836	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3903	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3905,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3930	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3931-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C3942	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3943	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3945	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3947	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3948,49	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3950,51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3954	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3980,81	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
D3102	MA142K	DIODE	1	
D3160	MA3J14300L	DIODE	1	
D3400	MA3J14300L	DIODE	1	
D3450	MA142K	DIODE	1	
D3501	MA142WK	DIODE	1	
D3550	MA142K	DIODE	1	
D3551	MA335-R	DIODE	1	
D3630	MA3J14300L	DIODE	1	
D3700	MA3J14300L	DIODE	1	
D3800	MA3J14300L	DIODE	1	
DL3500	VLD0264	COIL	1	G2A7R9C00001
FL3101	VLF1015	FILTER	1	
FL3631	VLF1353	FILTER	1	
FL3701	VLF1355	FILTER	1	
FL3801	VLF1355	FILTER	1	
IC3001,02	NJM78L09UA	IC	2	C0CBAHC00002
IC3003	XC62FP3302P	IC	1	
IC3005	XC62FP3302P	IC	1	
IC3007-10	AN77L05M	IC	4	
IC3011,12	XC62FP5002P	IC	2	
IC3013-17	XC62DN5002P	IC	5	
IC3018	C0CBAAB00021	IC	1	
IC3019	AN77L05M	IC	1	
IC3101	THC4053FT	IC	1	
IC3103	AN3296S	IC	1	
IC3104	SN74LS221NS	IC	1	
IC3160	NJM084M	IC	1	C0ABFB000008
IC3161	NJM082BM	IC	1	C0ABEB000017
IC3162	C0FBAF000042	IC	1	
IC3163	TVHT244F	IC	1	
IC3164	74AHC1G08DCK	IC	1	
IC3200	74AHC1G08DCK	IC	1	
IC3201	YWCXD2105AQ	IC	1	
IC3300,01	THC4053FT	IC	2	
IC3400,01	SN74LS221NS	IC	2	
IC3402	TVHC04FT	IC	1	
IC3403	NJM084M	IC	1	C0ABFB000008
IC3405-07	TC4W53F	IC	3	C0JBAR000225
IC3450,51	NJM1496M	IC	2	
IC3452	NJM319M	IC	1	
IC3502	AN91A12S	IC	1	
IC3550,51	SN74LS221NS	IC	2	
IC3552	TVHC00FT	IC	1	
IC3553	TC4S584F	IC	1	
IC3554	TVHC74FT	IC	1	
IC3555	NJM082BM	IC	1	C0ABEB000017
IC3556	TC4W53F	IC	1	C0JBAR000225
IC3557	NVHC244MTCX	IC	1	
IC3630	NJM082BM	IC	1	C0ABEB000017
IC3631	C0FBAF000042	IC	1	
IC3632	THC4053FT	IC	1	
IC3633	NJM084M	IC	1	C0ABFB000008
IC3700	NJM082BM	IC	1	C0ABEB000017
IC3701	C0FBAF000042	IC	1	
IC3702	THC4053FT	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3703	NJM084M	IC	1	C0ABFB000008
IC3704	C0ZBZ0000547	IC	1	
IC3800	NJM082BM	IC	1	C0ABEB000017
IC3801	C0FBAF000042	IC	1	
IC3802	THC4053FT	IC	1	
IC3803	NJM084M	IC	1	C0ABFB000008
IC3804	C0ZBZ0000547	IC	1	
IC3900	M62370GP	IC	1	C0FBBD000082
IC3930	C1ZBZ0001836	IC	1	
IC3931,32	TVHT244F	IC	2	
IC3935	74AHC1G08DCK	IC	1	
IC3980	74LCX244MTCX	IC	1	
IC3981	NVHC244MTCX	IC	1	
ID0	VVVSI3572	SOFTWARE	1	
IP3930	C1ZBZ0001555	IC	1	
L3001-03	VLF1151A132	COIL	3	
L3102-04	VLQ0319K101	COIL 100UH	3	G1C101K00022
L3160-65	VLQ0319K101	COIL 100UH	6	G1C101K00022
L3200	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3300	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3301	VLQ0163J180	COIL 18UH	1	G1C180J00001
L3302	VLQ0163J220	COIL 22UH	1	
L3303,04	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3305	VLQ0163J180	COIL 18UH	1	G1C180J00001
L3306	VLQ0163J220	COIL 22UH	1	
L3307	VLQ0163J270	COIL 27UH	1	
L3308	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L3309	VLQ0163J5R6	COIL 5.6UH	1	
L3401,02	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3450	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3451	VLQ0163J680	COIL 68UH	1	
L3452,53	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3454	VLQ0163J680	COIL 68UH	1	
L3455	VLQ0163J470	COIL 47UH	1	
L3500	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3501	VLQ0133J471	COIL 470UH	1	G1C471J00001
L3502	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3550	VLQ0319K470	COIL 47UH	1	G1C470K00013
L3600,01	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3630-34	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3635	VLQ0133J821	COIL 820UH	1	
L3700-04	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3705	VLQ0133J821	COIL 820UH	1	
L3800-04	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3805	VLQ0133J821	COIL 820UH	1	
P3001	K1KA96B00032	CONNECTOR (MALE)	1	
P3002	VJP3125B008	CONNECTOR (MALE)	1	
Q3100	2SB709A	TRANSISTOR	1	
Q3101	2SD601A	TRANSISTOR	1	
Q3102	XN4501	TRANSISTOR-RESISTOR	1	
Q3160	2SD601A	TRANSISTOR	1	
Q3161	2SC3130	TRANSISTOR	1	
Q3162	2SB709A	TRANSISTOR	1	
Q3163-65	2SD601A	TRANSISTOR	3	
Q3166	2SK198-R	TRANSISTOR	1	
Q3300	2SD601A	TRANSISTOR	1	
Q3301	2SB709A	TRANSISTOR	1	
Q3302	2SD601A	TRANSISTOR	1	
Q3303	2SC3130	TRANSISTOR	1	
Q3304	2SD601A	TRANSISTOR	1	
Q3305	XN4601	TRANSISTOR-RESISTOR	1	
Q3306	2SD601A	TRANSISTOR	1	
Q3307	2SB709A	TRANSISTOR	1	
Q3308	2SD601A	TRANSISTOR	1	
Q3309	2SC3130	TRANSISTOR	1	
Q3310	2SD601A	TRANSISTOR	1	
Q3311	XN4601	TRANSISTOR-RESISTOR	1	
Q3312	2SD601A	TRANSISTOR	1	
Q3313	2SB709A	TRANSISTOR	1	
Q3314	2SC3130	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3315	2SD601A	TRANSISTOR	1	
Q3401	2SD601A	TRANSISTOR	1	
Q3450,51	2SD601A	TRANSISTOR	2	
Q3452	2SB709A	TRANSISTOR	1	
Q3453	2SD601A	TRANSISTOR	1	
Q3454	2SB709A	TRANSISTOR	1	
Q3455,56	2SD601A	TRANSISTOR	2	
Q3550	2SC3757-R	TRANSISTOR	1	
Q3551,52	2SA1226E34	TRANSISTOR	2	
Q3553	2SC3757-R	TRANSISTOR	1	
Q3554	2SC2295	TRANSISTOR	1	
Q3600	XN4601	TRANSISTOR-RESISTOR	1	
Q3601	2SC3757-R	TRANSISTOR	1	
Q3602	XN4601	TRANSISTOR-RESISTOR	1	
Q3603	XN1213	TRANSISTOR-RESISTOR	1	
Q3604	XN4601	TRANSISTOR-RESISTOR	1	
Q3630	2SD601A	TRANSISTOR	1	
Q3631,32	2SB709A	TRANSISTOR	2	
Q3633	2SD601A	TRANSISTOR	1	
Q3634	2SC3130	TRANSISTOR	1	
Q3635-37	2SD601A	TRANSISTOR	3	
Q3638	2SD1979	TRANSISTOR	1	
Q3639	2SB709A	TRANSISTOR	1	
Q3640	2SK198-R	TRANSISTOR	1	
Q3700	2SD601A	TRANSISTOR	1	
Q3701	2SB709A	TRANSISTOR	1	
Q3703,04	2SD601A	TRANSISTOR	2	
Q3705	2SC3130	TRANSISTOR	1	
Q3706,07	2SD601A	TRANSISTOR	2	
Q3709	2SD601A	TRANSISTOR	1	
Q3710	2SD1979	TRANSISTOR	1	
Q3711	2SB709A	TRANSISTOR	1	
Q3712	2SK198-R	TRANSISTOR	1	
Q3800	2SD601A	TRANSISTOR	1	
Q3801	2SB709A	TRANSISTOR	1	
Q3803,04	2SD601A	TRANSISTOR	2	
Q3805	2SC3130	TRANSISTOR	1	
Q3806,07	2SD601A	TRANSISTOR	2	
Q3809	2SD601A	TRANSISTOR	1	
Q3810	2SD1979	TRANSISTOR	1	
Q3811	2SB709A	TRANSISTOR	1	
Q3812	2SK198-R	TRANSISTOR	1	
QR3300	UN2213	TRANSISTOR-RESISTOR	1	
R3103	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3104	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3105	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3106	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3107	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3113	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3114	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3115	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R3117	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3118	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3119	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3120	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3121	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3124	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3127	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R3128	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3131	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3134	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R3137	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R3138	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3141	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3142	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R3145	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3146	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3149	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3150	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3153	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3154	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3160	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3161	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3162	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R3163	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3164	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3165	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3166	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3167	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3170	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3173	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3174	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3175	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3176	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3177	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3178	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3179	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3181-83	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R3185	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3186,87	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R3188	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	1	
R3189	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	1	
R3190	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R3193	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3196	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3197-99	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R3200	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3202,03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3205	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3208	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3211,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3214	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3215,16	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3217	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3218	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3219	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3220	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3221	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3222	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3223,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3300	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3301	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3304	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3305	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3306	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3307	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3309	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3313	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3314	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3315,16	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3317	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3318	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3319	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3320	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3321	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3322,23	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3325	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3326	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3327	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3328	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3329	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3330	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3331	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3332	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3333	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3337	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3338	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3339	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R3340	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3341	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3342	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3344	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3345	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3346	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3347,48	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3349	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R3350	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3351	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3352	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3353	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3354	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3355	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3356	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3357	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3358	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3359	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3360	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3363	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3364,65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3366	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3401	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3402	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3404	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3405	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3406	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3407	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3408	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3410	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3412	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3413	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3415	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3417	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3422	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3423	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3425	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3426	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3427	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3429,30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3432	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3433	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3434	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3435	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3438	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3443-46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R3449	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3450	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3451	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3452	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3453,54	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3455	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3456	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3457,58	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R3459,60	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3461	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3462	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3463	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3466	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3467	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3468	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3469	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3470,71	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3472	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3473	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3474,75	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R3476,77	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R3478	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3479	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3480	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3483	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3484	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3485,86	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3487	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3488	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3489	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3490	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3491	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3492	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3493	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3494	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3495	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3496	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3497	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3502	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3506	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3508	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3515	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R3516	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3517-19	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3541	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3547	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3550	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3551	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3552	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3553	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3554	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3555,56	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3557,58	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3559	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3561	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3562	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3563,64	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R3565	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3567	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3568	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3569	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3570	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3575,76	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R3577	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3578	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3580	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3581	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3582-86	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R3587	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3588	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3589	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3590	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3591	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3592	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3600	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3601	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3602	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3603	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3604	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3605	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R3606	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3607	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3608	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R3609	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3610	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3611	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3612	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3613	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R3614	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R3615	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R3616	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3617	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3618	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3619	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3620	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R3621	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R3622	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3623	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R3630	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3631	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3632	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3633,34	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3635	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3636	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3637	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3638	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3640	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3641	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3642	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3643	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3644	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3649	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3651	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3652	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3653	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3654	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3655	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3656	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3657	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3658	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3659	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3660	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3661	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3662	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3665	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3666	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3668	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3669	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3670	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R3671	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R3672	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3673	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3674	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3675	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3676	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3677	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3678	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3679	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3680,81	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R3682	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3683	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3684	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3688	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3700	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3701	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3702	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3703	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3704-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3712	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R3713	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3714	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3716	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3717	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3718	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3719	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3723	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3726	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3727	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3728	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3729	ERJ3GEYG222	M.RESISTOR CH 1/16W 2.2K	1	
R3730	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3731	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3732,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3734	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3735	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3736	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3737	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3743	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3744	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3746,47	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3748	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3749	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3750	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3751	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3752	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3753	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3754	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3755	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3756	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3757	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3758	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3759	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3763	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3800	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3801	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3802	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3803	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3804-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3812	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R3813	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3814	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3816	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3817	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3818	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3819	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3823	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3826	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3827	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3828	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3829	ERJ3GEYG222	M.RESISTOR CH 1/16W 2.2K	1	
R3830	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3831	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3832,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3834	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3835	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3836	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3837	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3843	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3844	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3846,47	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3848	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3849	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3850	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3851	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3852	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3853	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3854	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3855	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3856	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3857	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3858	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3859	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3863	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3864,65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3900	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3901	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3902	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3903	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3904	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3905	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3906	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3930	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3931	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3932,33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3936,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3939	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3941	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3942	D1H810240001	COMBI.R-R	1	
R3943	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3944	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3945	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3946,47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3948	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3950,51	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3953,54	D1H84704A008	COMBI.R-R	2	
R3955	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3958	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3980	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3981	D1H833040002	COMBI.R-R	1	
R3982,83	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R3984,85	D1H833040002	COMBI.R-R	2	
TG3160	EYF6CU	TEST POINT	1	
TG3400	EYF6CU	TEST POINT	1	
TG3450	EYF6CU	TEST POINT	1	
TG3550	EYF6CU	TEST POINT	1	
TG3630	EYF6CU	TEST POINT	1	
TG3700	EYF6CU	TEST POINT	1	
TG3800	EYF6CU	TEST POINT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TG3930	EYF6CU	TEST POINT	1	
TP3160	EYF6CU	TEST POINT	1	
TP3400,01	EYF6CU	TEST POINT	2	
TP3450	EYF6CU	TEST POINT	1	
TP3550-52	EYF6CU	TEST POINT	3	
TP3630	EYF6CU	TEST POINT	1	
TP3700	EYF6CU	TEST POINT	1	
TP3800	EYF6CU	TEST POINT	1	
TP3930-33	EYF6CU	TEST POINT	4	
TP3980,81	EYF6CU	TEST POINT	2	
VC3500	VCV0047	TRIMMER	1	
VR3401	EVMEASA00B53	V.RESISTOR 5K	1	
VR3402	EVMEASA00B13	V.RESISTOR 1K	1	
VR3403	EVMEASA00B53	V.RESISTOR 5K	1	
VR3404	EVMEASA00B13	V.RESISTOR 1K	1	
VR3550	EVMEASA00B23	V.RESISTOR 2K	1	
X3401	VSX0338	CRYSTAL OSCILLATOR	1	H1C1435A0002
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E6	VEP86314A	F6 SYSCON P.C.BOARD	1	(RTL)
C1-C6	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C7-10	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C11,12	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C13-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C101	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C102,03	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C104-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C151	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C152-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C156-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C161	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C212	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C251,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C253	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C254-56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C258-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C264	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C302	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C303-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C310	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C311	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C312	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C313-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C351,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C353-55	EEVHB1C470	E.CAPACITOR 16V 47U	3	
C356-58	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C401-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C501-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C507	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C508,09	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	2	
C510-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C553	VCK0152	C.CAPACITOR	1	F1L1C1060016
C559	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C560	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C561	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C562	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C563,64	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C565	VCK0152	C.CAPACITOR	1	F1L1C1060016
C566-68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C569	VCK0152	C.CAPACITOR	1	F1L1C1060016

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C570	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C573	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C575	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C576	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C577	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C578	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C579	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C580	VCK0152	C.CAPACITOR	1	F1L1C1060016
C581,82	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C587,88	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C589	VCK0152	C.CAPACITOR	1	F1L1C1060016
C651-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C701-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	28	
D1	MA716	DIODE	1	
D252-56	MA716	DIODE	5	
D301	MA147	DIODE	1	
D302	MA716	DIODE	1	
D553,54	MA147	DIODE	2	
D701-09	MA716	DIODE	9	
IC1	XC62FP5002P	IC	1	
IC2	XC62DN5002P	IC	1	
IC3	NJM78L09UA	IC	1	C0CBAHC00002
IC4	NJM79L09UA	IC	1	C0CABBF00001
IC101	HD64180ZRFS8	IC	1	C2GBA0000021
IC102	TVHT541FT	IC	1	
IC103	TVHC32FT	IC	1	
IC104 02	M27C100115F1	IC	1	
IC104	VSI3557A	IC	1	
IC105	CY7C19920ZC	IC	1	
IC106	IDT71321L55F	IC	1	C3HBCC000002
IC107	NVHC138MTCX	IC	1	
IC108	TVHC00FT	IC	1	
IC151	Z84C4310FEC	IC	1	C2ZBZ0000312
IC152	TVHC161FT	IC	1	
IC153	ADM202JRN	IC	1	C0ZBZ0000171
IC156	SN75C1168NS	IC	1	
IC203	TVHC04FT	IC	1	
IC251	TVHC32FT	IC	1	
IC252	TVHC74FT	IC	1	
IC253,54	T74HC191AF	IC	2	
IC255	TVHC574FT	IC	1	
IC256	TC74HC4094F	IC	1	C0JBAQ000104
IC257	TC74HC4050AF	IC	1	
IC258	TVHC574FT	IC	1	
IC259	TVHT574FT	IC	1	
IC260	74AHC1G08DCK	IC	1	
IC261	TVHC123FT	IC	1	
IC301	M37702S4AFP	IC	1	C2CBYF000003
IC302	M27C400110F1	IC	1	
IC302	VSI3561A	IC	1	
IC303	TVHC32FT	IC	1	
IC304	TVHC00FT	IC	1	
IC305	TVHC32FT	IC	1	
IC306	NVHC138MTCX	IC	1	
IC307	TVHC573FT	IC	1	
IC308	TVHC04FT	IC	1	
IC309	TL7705CPSB	IC	1	
IC351	IDT71321L55F	IC	1	C3HBCC000002
IC352	CY7C19920ZC	IC	1	
IC353	STK12C68S45	IC	1	
IC354	NVHC245MTCX	IC	1	
IC401	IDT71321L55F	IC	1	C3HBCC000002
IC402,03	NVHC541MTCX	IC	2	
IC404	UPD6456T611Y	IC	1	C1AB00000555
IC501	M37702S4AFP	IC	1	C2CBYF000003
IC502	M27C200115F1	IC	1	
IC502	VSI3563B	IC	1	
IC503	CY7C19920ZC	IC	1	
IC504	TVHC573FT	IC	1	
IC505,06	NVHC138MTCX	IC	2	
IC507,08	TVHC32FT	IC	2	
IC509	TVHC00FT	IC	1	
IC551	MN51040VPI	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC552	TVHC32FT	IC	1	
IC553	TVHC574FT	IC	1	
IC554	TC4W53FU	IC	1	
IC555	C0ABBB000032	IC	1	
IC558	C0BBBA000044	IC	1	
IC559	C0ABBB000196	IC	1	
IC651	TVHC32FT	IC	1	
IC652	TVHC08FT	IC	1	
IC654,55	TVHC74FT	IC	2	
IC656	NVHC541MTCX	IC	1	
IC658	NVHC541MTCX	IC	1	
IC660	TLVX4245FS	IC	1	
IC661	NVHC541MTCX	IC	1	
IC663	NVHC245MTCX	IC	1	
IC701,02	NJM084V	IC	2	
IC703,04	NVHC541MTCX	IC	2	
IC705	TVHT541FT	IC	1	
IC706	TVHT574FT	IC	1	
IC707	TVHC574FT	IC	1	
IC708	TVHC14FT	IC	1	
IC709	TVHT04FT	IC	1	
IC710	TVHC126FT	IC	1	
IS104	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
IS302	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
IS502	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
L1,L2	VLF1151A132	COIL	2	
L501	VLQ0163J470	COIL 47UH	1	
P1,P2	K1KA96B00032	CONNECTOR (MALE)	2	
QR301	UN5214	TRANSISTOR-RESISTOR	1	
R102-04	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R105,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R107	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R110	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R112,13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R117	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R151	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R153	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R156	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R161	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R162	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R163	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R164	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R165,66	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R167	D1H84734A008	COMBI.R-R	1	
R168,69	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R177	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R180	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R201,02	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R205	D1H84734A008	COMBI.R-R	1	
R251,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R253	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R254	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R256,57	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R258	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R259,60	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R266	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R268,69	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R271,72	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R273	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R274	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R301-04	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R305	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R306-08	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R309	D1H84704A008	COMBI.R-R	1	
R310	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R311	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R312	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R314	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R316	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R317	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R318	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R319	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R351	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R401,02	D1H84704A008	COMBI.R-R	2	
R403	D1H84734A008	COMBI.R-R	1	
R404	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R405	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R406,07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R408	D1H84704A008	COMBI.R-R	1	
R501	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R502	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R503	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R504	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R507	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R509,10	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R511	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R514	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R559	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R562	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R567	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R570	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R571	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R573	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R574,75	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R576	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R577	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R578,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R580	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R581	D1H84734A008	COMBI.R-R	1	
R583,84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R585	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R586,87	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R588	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R589	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R590	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R591	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	1	
R592	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R593	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R594	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R597,98	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R603	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R610	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R611	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R612	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R614	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R651	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R653	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R654,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R656-59	D1H84734A008	COMBI.R-R	4	
R660-62	D1H84704A008	COMBI.R-R	3	
R664-67	D1H84704A008	COMBI.R-R	4	
R701-06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R707-12	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	6	
R713	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R714	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R715-20	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	6	
R721	D1H84734A008	COMBI.R-R	1	
R722-27	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R728-30	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R731-33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R734,35	D1H84734A008	COMBI.R-R	2	
R736,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R738,39	D1H84734A008	COMBI.R-R	2	
R740,41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R742-44	D1H84704A008	COMBI.R-R	3	
SW301	VSS0367-02B	SWITCH	1	
TG301	EYF6CU	TEST POINT	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TG501	EYF6CU	TEST POINT	1	
X101	VSX0641	CRYSTAL OSCILLATOR	1	
X301	VSX0641	CRYSTAL OSCILLATOR	1	
X501	VSX0654	CRYSTAL OSCILLATOR	1	H0J160500017
X551	VSX1001	CRYSTAL OSCILLATOR	1	H2C143500002
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E7	VEP82238A	F7 SERVO P.C.BOARD	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6,C7	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C8,C9	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C10,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C12	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C13,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C15,16	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	2	
C17	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C18	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C19	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C20,21	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C22-26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C27	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C60	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C61-64	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C70-73	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C74-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C150,51	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	2	
C152,53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C154	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C155	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C156,57	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C158,59	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C160	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C163	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C165,66	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C167-71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C201	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C202,03	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C204-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C215,16	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C217,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C219,20	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C221-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C301-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C350	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C351,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C353	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C354,55	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	2	
C356-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C361,62	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C364-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C401,02	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	2	
C403,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C405,06	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C407,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C409,10	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C411	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C412-24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C425	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C426,27	EEVHB1C470	E.CAPACITOR 16V 47U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C428	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C429,30	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C431	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C432	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C450	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C451	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C452	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C453	EEUFC1V101	E.CAPACITOR 35V 100U	1	
C454,55	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C456,57	EEUFC1V101	E.CAPACITOR 35V 100U	2	
C458,59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C500	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C501	EEUFC1V101	E.CAPACITOR 35V 100U	1	
C502,03	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C504	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C505,06	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C507,08	EEUFC1V101	E.CAPACITOR 35V 100U	2	
C509-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C512	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C513	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C514	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C515	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C516	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C517-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C550,51	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C552-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C555	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C556	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C557	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C558,59	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C560	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C561	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C562	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C563	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C564	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C565	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C566	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C567	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C568	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C569	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C570	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C571	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C572	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C573	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C574	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C575	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C576,77	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C578,79	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C580,81	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C582	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C583	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C584	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C585	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C586,87	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C588,89	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C590,91	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C592,93	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C594,95	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C596,97	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C598,99	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C600,01	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C602,03	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C604,05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C606-09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C610-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C614,15	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C616,17	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C618-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C651-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C657,58	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	2	
C659	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C660	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C661	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C662	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C663-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C667	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C668	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C669-71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
D1-D4	MA8075-H	DIODE	4	
D5,D6	MA142K	DIODE	2	
D7-D9	MA147	DIODE	3	
D201-03	MA147	DIODE	3	
D350-52	LN1251CAL	DIODE	3	
D353,54	MA147	DIODE	2	
D355,56	MA142K	DIODE	2	
D401,02	MA142K	DIODE	2	
D403-06	MA716	DIODE	4	
D407	MA147	DIODE	1	
D450,51	MA728	DIODE	2	
D452,53	MA736	DIODE	2	
D500,01	MA728	DIODE	2	
D502,03	MA736	DIODE	2	
D504	MA142K	DIODE	1	
D550,51	MA142K	DIODE	2	
D552-63	MA738	DIODE	12	
D564,65	MA147	DIODE	2	
D605,06	MA738	DIODE	2	
D609-12	MA738	DIODE	4	
D651	MA142K	DIODE	1	
D652-55	MA142WK	DIODE	4	
D656	MA147	DIODE	1	
D657	MA142WK	DIODE	1	
D658	MA142WA	DIODE	1	
D659	MA8051-M	DIODE	1	
D660	MA8082-H	DIODE	1	
D661	MA142WK	DIODE	1	
D662	MA142K	DIODE	1	
D663	MA8033-H	DIODE	1	
D664	MA8039-H	DIODE	1	
D665	MA8075-M	DIODE	1	
D666	MA738	DIODE	1	
D667	MA142K	DIODE	1	
D668-70	MA738	DIODE	3	
IC1	TVHC14FT	IC	1	
IC2	NJM4558M	IC	1	
IC3	TC4052BFN	IC	1	
IC5	NJM4558M	IC	1	
IC7	NJM4558M	IC	1	
IC8	TC4052BFN	IC	1	
IC61,62	C0ABBB000184	IC	2	
IC63	NJM2901M	IC	1	C0BBCA000008
IC103	TVHC14FT	IC	1	
IC151	NJM4558M	IC	1	
IC152	C0ABBB000184	IC	1	
IC153	NJM2903M	IC	1	
IC154	TVHC14FT	IC	1	
IC155	NJM4558M	IC	1	
IC156	NJM2903M	IC	1	
IC157	C0ABBB000184	IC	1	
IC202,03	S80829ANUP	IC	2	
IC204	T74VHCU04F	IC	1	
IC206,07	T74VHC541F	IC	2	
IC301	T74VHC541F	IC	1	
IC351,52	TVHT541FEL	IC	2	
IC353	74LCX245SJX	IC	1	
IC354	M62370GP	IC	1	C0FBBD000082
IC355,56	NJM4558M	IC	2	
IC357	NJM2904V	IC	1	
IC401	NJM2904V	IC	1	
IC402,03	NJM78L09UA	IC	2	C0CBAHC00002
IC404	XC62FP3302P	IC	1	
IC405	XC62FP5002P	IC	1	
IC406,07	NJM79L09UA	IC	2	C0CABBF00001
IC408	XC62DN5002P	IC	1	
IC501	NJM2903M	IC	1	
IC502	C0ABBB000184	IC	1	
IC503	TL1451CNS	IC	1	
IC551	NJM2903M	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC552	NJM4558M	IC	1	
IC553,54	AN3834K	IC	2	
IC555	NJM4558M	IC	1	
IC600,01	AN3890FBS	IC	2	
IC650	TVHT541FT	IC	1	
IC651	C0JBAM000059	IC	1	
IC652	NJM2904V	IC	1	
IC653	TVHC123FT	IC	1	
IC654	TVHT541FT	IC	1	
IC655,56	M54649L	IC	2	C0GAH0000001
IC658	NJM2903M	IC	1	
ID0	VVVSI3567	SOFTWARE	1	
ID201	VVVSI3565A	SOFTWARE	1	
IP201	MN1030F04K	IC	1	
IP300	EPM3256A1410	IC	1	
L401,02	VLF1151A132	COIL	2	
L450	VLQ0407120M	COIL 12UH	1	G0A120HA0007
L451,52	VLQ0504331K	COIL 330UH	2	G0A331F00001
L500,01	VLQ0504331K	COIL 330UH	2	G0A331F00001
P202	VJS3791B020	CONNECTOR (FEMALE)	1	
P300	VJP3125B008	CONNECTOR (MALE)	1	
P700,01	K1KA96B00032	CONNECTOR (MALE)	2	
Q1	2SD601A	TRANSISTOR	1	
Q2,Q3	2SB709A	TRANSISTOR	2	
Q4	2SD601A	TRANSISTOR	1	
Q5	2SB709A	TRANSISTOR	1	
Q6	2SD601A	TRANSISTOR	1	
Q401,02	2SD601A	TRANSISTOR	2	
Q450,51	2SB1073	TRANSISTOR	2	
Q500,01	2SB1174-Q	TRANSISTOR	2	
Q600	2SB1073	TRANSISTOR	1	
Q601	2SD1119	TRANSISTOR	1	
Q602	2SB1073	TRANSISTOR	1	
Q603	2SD1119	TRANSISTOR	1	
Q604	PU3210	TRANSISTOR	1	
Q605	PU3110	TRANSISTOR	1	
Q606	2SB1073	TRANSISTOR	1	
Q607	2SD1119	TRANSISTOR	1	
Q650	2SD601A	TRANSISTOR	1	
Q651	2SB710A	TRANSISTOR	1	
Q652	2SB936A-Q	TRANSISTOR	1	
Q653,54	2SB766	TRANSISTOR	2	
QR1-R5	UN5213	TRANSISTOR-RESISTOR	5	
QR6	UN5113	TRANSISTOR-RESISTOR	1	
QR7	UN5215	TRANSISTOR-RESISTOR	1	
QR8	UN5115	TRANSISTOR-RESISTOR	1	
QR350-52	UN5213	TRANSISTOR-RESISTOR	3	
QR500,01	UN5111	TRANSISTOR-RESISTOR	2	
QR550-53	UN5215	TRANSISTOR-RESISTOR	4	
QR600	UN5213	TRANSISTOR-RESISTOR	1	
QR601	UN5217	TRANSISTOR-RESISTOR	1	
QR602	UN5211	TRANSISTOR-RESISTOR	1	
QR651	UN5213	TRANSISTOR-RESISTOR	1	
QR652	UN5113	TRANSISTOR-RESISTOR	1	
QR653,54	UN5213	TRANSISTOR-RESISTOR	2	
QR655,56	UN5214	TRANSISTOR-RESISTOR	2	
QR657	UN5213	TRANSISTOR-RESISTOR	1	
QR658	UN5113	TRANSISTOR-RESISTOR	1	
QR659-63	UN5214	TRANSISTOR-RESISTOR	5	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R7	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R8	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R9	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R10	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R12	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R13	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R14	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R15	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R16	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R18	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R19	ERJ3GEYJ303	M.RESISTOR CH 1/16W 30K	1	
R20	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R21	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R22	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R23	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R24,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R26	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R27	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R29,30	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R31	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R32	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R33	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R34-36	ERJ3RBD471	M.RESISTOR CH 1/16W 470	3	
R37	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R38,39	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	2	
R40,41	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R42	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R43	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R44,45	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R46	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R47	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R48	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R49	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R60	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R61	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R62	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R63	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R64	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R65	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R66	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R67	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R68	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R69	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R70	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R71	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R72	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R73	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R74	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R75	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R76-79	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	4	
R80,81	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R82-85	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R86-89	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R90-93	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	4	
R94-97	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	4	
R98	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R99	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R100,01	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R102,03	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R104	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R105	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R106-09	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	4	
R150	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R151	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R152	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R153	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R154,55	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R156	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R157	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R158	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R159	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R160,61	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R162	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R163	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R164,65	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R166	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R167	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R168,69	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R170	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R171	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R172	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R173	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R174,75	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R176,77	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R178,79	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R180,81	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R182,83	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R184,85	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R186,87	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	2	
R188,89	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R190,91	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R192,93	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R194,95	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	D1H84704A008	COMBI.R-R	2	
R203	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R204	D1H84734A008	COMBI.R-R	1	
R206	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R207	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R209,10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R211	D1H810140001	COMBI.R-R	1	
R212	ERJ3GEYJ120	M.RESISTOR CH 1/16W 12	1	
R213	D1H84734A008	COMBI.R-R	1	
R214,15	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R216	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R218	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R220	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R221	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R222	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R224-27	D1H84704A008	COMBI.R-R	4	
R228	D1H84734A008	COMBI.R-R	1	
R229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R230	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R233-35	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R236-38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R302	D1H810240001	COMBI.R-R	1	
R303	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R305,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R307	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R308	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R309,10	D1H84704A008	COMBI.R-R	2	
R311	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R351-53	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R354-59	D1H84704A008	COMBI.R-R	6	
R360-62	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	3	
R363	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R364,65	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R366,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R368,69	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	2	
R370,71	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	2	
R372	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R373	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R374,75	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R376	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R377	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R378-80	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R381	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R382	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R383	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R384	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R385	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R386	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R401,02	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R404	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R405,06	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R407	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R408-11	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R412,13	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R450,51	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R452,53	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R454,55	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R457	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R500,01	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R502,03	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R504,05	ERJ12YJ471	M.RESISTOR CH 1/2W 470	2	
R506	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R507	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R508	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R509	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R510	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R511	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R512	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R513	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R514,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R516	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R517	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R518	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R519,20	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R521	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R522	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R523	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R524,25	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R526,27	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	2	
R528	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R529	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R530	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R531,32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R533	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R535	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R551-53	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R554	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R555	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R556	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R558,59	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	2	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R562,63	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R564	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R565	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R566,67	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R568	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	1	
R569	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R570	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	1	
R571	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R572,73	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R574,75	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R576	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R577	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R578	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R579	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R580-83	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R584,85	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R586,87	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R588,89	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R600	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R601,02	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R603	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R605,06	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R607,08	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R609,10	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R611,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R613-18	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	6	
R619	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R651-53	D1H84734A008	COMBI.R-R	3	
R654	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R655	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R656	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R657-60	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R661	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R662	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R663	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R664	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R666	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R667	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R668	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R669,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R671-74	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R675	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R676,77	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R678	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R679,80	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R681-83	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R684	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R685	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R686	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	1	
R687	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R688	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R689,90	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	2	
R691,92	ERJ8GEYJ181	M.RESISTOR CH 1/8W 180	2	
R693	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R694	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R695	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R696	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R697	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R698	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
TG1,G2	EYF6CU	TEST POINT	2	
TG4	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP30,31	EYF6CU	TEST POINT	2	
TP80-83	EYF6CU	TEST POINT	4	
TP120-23	EYF6CU	TEST POINT	4	
TP160-63	EYF6CU	TEST POINT	4	
TP201	EYF6CU	TEST POINT	1	
TP230-33	EYF6CU	TEST POINT	4	
TP280-82	EYF6CU	TEST POINT	3	
TP300-02	EYF6CU	TEST POINT	3	
TP305	EYF6CU	TEST POINT	1	
TP320	EYF6CU	TEST POINT	1	
TP400,01	EYF6CU	TEST POINT	2	
TP450,51	EYF6CU	TEST POINT	2	
TP651,52	EYF6CU	TEST POINT	2	
X201	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E8	VEP85196A	F8 RF EQ P.C.BOARD	1	(RTL)
C5001-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5021-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C5051-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5101,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5103,04	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5105,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5107,08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5109	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5111-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5114	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5115-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5118,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5120	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5121,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5123,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5125,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5127	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5129	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5130	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5131	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5133	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C5134-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5138	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5139,40	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C5141	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5142	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5143	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5145,46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5147,48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5149,50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5151	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5152-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5155	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5156	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C5157	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C5158	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5160,61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5162,63	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C5201,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5203	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5204	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C5205	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5206	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C5207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5208	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C5209,10	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C5211,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5213,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5215-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5218	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5219,20	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5222	ECUX1H182KBV	C.CAPACITOR CH 50V 1800P	1	
C5301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5302	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C5303	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5304-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5312	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5313	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5316	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5317-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5320	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5321,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5324	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5325	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C5326-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C5351-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C5401,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5403,04	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5405,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5407,08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5409	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5411-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5414	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5415-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5418,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5420	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C5421,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5423,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5425,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5427	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5429	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5430	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5431	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5433	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C5434-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5438	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5439,40	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C5441	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5442	ECUV1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5443	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5445,46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5447,48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5449,50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5451	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5452-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5455	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5456	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C5457	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C5458	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5460,61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5462,63	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C5601	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5602	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C5603	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5604-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5612	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5613	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5615	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5616	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5617-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5620	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5621	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5624	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5625	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C5626-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C5702-05	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C5707-10	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C5712	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C5713-15	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C5717	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5721-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	26	
D5051	MA142K	DIODE	1	
D5701,02	MA701A	DIODE	2	
D5703-05	MA716	DIODE	3	
IC5001	DS90LV048A	IC	1	
IC5002	74LCX74MTCX	IC	1	
IC5003	74LCX244MTCX	IC	1	
IC5004	DS90LV047A	IC	1	
IC5005	M62370GP	IC	1	C0FBBD000082
IC5006-08	THC4053FT	IC	3	
IC5009	NJM084V	IC	1	
IC5010	NJM082BV	IC	1	
IC5011	TC4S30F	IC	1	C0JBAZ000429
IC5012	74AHC1G32DCK	IC	1	
IC5013	74AHC1G00DCK	IC	1	
IC5014	TC7W125FU	IC	1	
IC5101	MC1495D	IC	1	
IC5102-04	UPC1663G	IC	3	C1CB00000329
IC5105	MN673796	IC	1	
IC5106	NJM082BV	IC	1	
IC5107	DS90LV047A	IC	1	
IC5108	74LCX574MTCX	IC	1	
IC5110	UPD65946GY00	IC	1	
IC5201,02	TC4S30F	IC	2	C0JBAZ000429
IC5203	NJM1496V	IC	1	
IC5204	NJM082BV	IC	1	
IC5401	MC1495D	IC	1	
IC5402-04	UPC1663G	IC	3	C1CB00000329
IC5405	MN673796	IC	1	
IC5406	NJM082BV	IC	1	
IC5408	74LCX574MTCX	IC	1	
IC5701-03	XC62FP5002P	IC	3	
IC5704-06	XC62DN5002P	IC	3	
IC5707-09	XC62FP3002P	IC	3	
L5101	VLQ0163MR27	COIL 0.27UH	1	
L5102	VLQ0163JR47	COIL 0.47UH	1	G1CR47J00004
L5103,04	VLQ0163J101	COIL 100UH	2	
L5105,06	VLQ0163JR22	COIL 0.22UH	2	G1CR22J00002
L5107	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L5201,02	VLQ0163J4R7	COIL 4.7UH	1	G1C4R7J00004
L5203,04	VLQ0163JR47	COIL 0.47UH	2	G1CR47J00004
L5401	VLQ0163MR27	COIL 0.27UH	1	
L5402	VLQ0163JR47	COIL 0.47UH	1	G1CR47J00004

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L5403,04	VLQ0163J101	COIL 100UH	2	
L5405,06	VLQ0163JR22	COIL 0.22UH	2	G1CR22J00002
L5407	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L5701-04	VLF1151A132	COIL	4	
P5001	K1KA96B00032	CONNECTOR (MALE)	1	
Q5101	XN5531	TRANSISTOR-RESISTOR	1	
Q5102,03	2SD1979	TRANSISTOR	2	
Q5104,05	XN5531	TRANSISTOR-RESISTOR	2	
Q5106,07	2SK508K512	TRANSISTOR	2	
Q5108-10	2SC3930	TRANSISTOR	3	
Q5111	XN5531	TRANSISTOR-RESISTOR	1	
Q5112-15	2SC3930	TRANSISTOR	4	
Q5201	XN5531	TRANSISTOR-RESISTOR	1	
Q5202,03	2SD1979	TRANSISTOR	2	
Q5204	2SC3935	TRANSISTOR	1	
Q5205	2SC3930	TRANSISTOR	1	
Q5301,02	2SA1532	TRANSISTOR	2	
Q5303	2SC3930	TRANSISTOR	1	
Q5401	XN5531	TRANSISTOR-RESISTOR	1	
Q5402,03	2SD1979	TRANSISTOR	2	
Q5404,05	XN5531	TRANSISTOR-RESISTOR	2	
Q5406,07	2SK508K512	TRANSISTOR	2	
Q5408-10	2SC3930	TRANSISTOR	3	
Q5411	XN5531	TRANSISTOR-RESISTOR	1	
Q5412-15	2SC3930	TRANSISTOR	4	
Q5601,02	2SA1532	TRANSISTOR	2	
Q5603	2SC3930	TRANSISTOR	1	
QR5051	UN5211	TRANSISTOR-RESISTOR	1	
QR5052	UN5111	TRANSISTOR-RESISTOR	1	
QR5201	UN5111	TRANSISTOR-RESISTOR	1	
R5001,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5003-05	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5006,07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5008	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5009	D1H84704A008	COMBI.R-R	1	
R5021,22	D1H84734A008	COMBI.R-R	2	
R5023,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5025	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5026	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5027,28	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R5029-31	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	3	
R5032-35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R5036	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5037	D1H810140001	COMBI.R-R	1	
R5038	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5039,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5041-43	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R5044	D1H810140001	COMBI.R-R	1	
R5051	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5052	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5053	D1H84734A008	COMBI.R-R	1	
R5054,55	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5101	D1H84704A008	COMBI.R-R	1	
R5102,03	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5104,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5106,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5108	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5109,10	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5111,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5113,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5115,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5117,18	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5119,20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5121	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5122	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5123	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5124	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5125	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5126	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5127	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5128,29	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5130,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5132,33	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5135,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5137,38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5139,40	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5141,42	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5143,44	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R5145	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5146	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5147	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5148	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5149	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5150,51	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5152	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5153	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5154	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5155	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5156	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5157	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5158-60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5161	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5162,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5164,65	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5166	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5167,68	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5169,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5171,72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5173,74	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5175,76	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5177	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5178	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5179	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5180	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5181	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5182	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5183,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5185	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5186,87	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5188	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5189,90	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5191,92	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5193	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5194,95	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5196	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5197	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5198	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5201,02	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5203,04	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5205,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5207,08	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R5209	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5210,11	ERJ3RED470	M.RESISTOR CH 1/16W 47	2	
R5212	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5213	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5214,15	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5216,17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5218	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5220	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5221	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5222	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R5223-26	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5227	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5228	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5229	D1H84704A008	COMBI.R-R	1	
R5230	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5231	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R5232	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R5233	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5234	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5235	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5236	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5301,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5303	D1H84734A008	COMBI.R-R	1	
R5304,05	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5309,10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5312	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5313	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5314	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5315,16	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R5317	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5318	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5319	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5320	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R5321	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5322	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5323	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5324	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5325	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5326	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5327	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5328	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5329	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5330	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5331	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5332	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5333	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5334	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5335	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5336	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5337,38	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5340-43	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5344-47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5357	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5358	D1H84704A008	COMBI.R-R	1	
R5359-62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5363	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5364	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R5365	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R5366	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R5367	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5368	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5369	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R5370	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R5371	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R5372	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5373	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5381-90	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	10	
R5393	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5397	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5401	D1H84704A008	COMBI.R-R	1	
R5402,03	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5404,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5406,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5408	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5409,10	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5411,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5413,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5415,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5417,18	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5419,20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5421	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5422	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5423	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5424	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5425	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5426	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5427	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5428,29	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R5430,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5432,33	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5435,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5437,38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5439,40	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5441,42	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5443,44	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R5445	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5446	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5447	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5448	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5449	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5450,51	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5452	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5453	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5454	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5456	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5457	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5458-60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5461	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5462,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5464,65	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5466	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5467,68	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5469,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5471,72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5473,74	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5475,76	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5477	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5478	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5479	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5480	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5481	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5482	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5483,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5485	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5486,87	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5488	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5489,90	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5491,92	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5493	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5494,95	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5496	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5497	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5498	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5609,10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5612	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5613	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5614	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5615,16	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R5617	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5618	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5619	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5620	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R5621	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5622	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5623	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5624	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5625	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5626	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5627	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5628	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5629	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5630	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5631	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5632	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5633	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5634	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5635	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5636	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5637,38	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5639	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5641,42	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5644,45	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5657,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5659,60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5663	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5664	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R5665	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R5666	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R5667	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5668	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5669	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R5670	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5671	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R5672	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5673	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5674,75	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5676	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5701-05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R5706	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5711-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5715-19	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R5720-27	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
RY5051	VSY2176	RELAY	1	K6B2CDA00045
TG5001-04	EYF6CU	TEST POINT	4	
TP5001-03	EYF6CU	TEST POINT	3	
TP5005-10	EYF6CU	TEST POINT	6	
TP5015,16	EYF6CU	TEST POINT	2	
TP5018-20	EYF6CU	TEST POINT	3	
		MISCELLANEOUS		
	VML2144	CARD PULLER	1	
	VSC4609	SHIELD CASE	2	
	VWZ0212	THERMAL CONDUCTIVE TUBE	2	
	XYN3+F8	SCREW	2	
	VMP6465	HEAT SINK HOLDER ANGLE B	1	
■ E9	VEP85197A	RF CUE P.C.BOARD	1	(RTL)
C4002	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4004	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4006	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4008	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4010,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4012	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4013	ECHU1C822JB	P.CAPACITOR 16V 8200P	1	
C4014	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4015,16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4018	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C4020	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4021,22	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4024	EEVHP1C100	E.CAPACITOR 16V 10U	1	
C4025	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4026	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4028	VCC0030	C.CAPACITOR	1	
C4030,31	ECHS1682JZ	P.CAPACITOR 100V 6800P	2	
C4034-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C4037	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4038	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4039	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4040	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4041	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C4042	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4043	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4044	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C4047,48	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C4049	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4050	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C4051,52	ECHS1682JZ	P.CAPACITOR 100V 6800P	2	
C4053	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4055	ECUX1C105KBM	C.CAPACITOR CH 16V 1U	1	
C5001-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5004	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5006	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5007	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5008	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5012,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5014,15	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C5016,17	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5018-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5101	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5102	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5103-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5107,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5109,10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5111	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5112	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5113-16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5117,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5119-22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5123	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5124-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5131	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5133-35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5161	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5163-65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5201-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5205	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5206	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5207	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5208	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5209,10	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C5211	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5252-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5255	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5256	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5257	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5258	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5259,60	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C5261	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5301	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5302	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5305	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C5307,08	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C5312-14	EEVHB1C470	E.CAPACITOR 16V 47U	3	
C5316	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5321-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	17	
D4001	MA142K	DIODE	1	
D4003	MA716	DIODE	1	
D4004,05	MA142K	DIODE	2	
D5001	MA142K	DIODE	1	
D5002-05	MA142WK	DIODE	4	
D5301	MA3J14300L	DIODE	1	
D5302	MA142K	DIODE	1	
D5303	MA716	DIODE	1	
FL4001	EIR7QF012B	TRANSFORMER	1	
IC4001,02	C0ABBB000184	IC	2	
IC4003	NJM78L09UA	IC	1	C0CBAHC00002
IC4005	XC62FP5002P	IC	1	
IC4006	XC62DN5002P	IC	1	
IC4007	NJM78L09UA	IC	1	C0CBAHC00002
IC5001	TVHT244FT	IC	1	
IC5002	TC7WU04FU	IC	1	
IC5003	TVHC02FT	IC	1	
IC5004-07	TC4S30F	IC	4	C0JBAZ000429
IC5101,02	UPC5102GS030	IC	2	C1ZBZ0001316
IC5103,04	TC4S30F	IC	2	C0JBAZ000429
IC5201	NJM082BV	IC	1	
IC5202,03	TC4S69F	IC	2	C0JBAB000138
IC5252,53	TC4S69F	IC	2	C0JBAB000138
IC5301	XC62FP5002P	IC	1	
IC5302,03	XC62DN5002P	IC	2	
L4001	VLQ0423J472	COIL 4700UH	1	
L4004	VLQ0651K181	COIL 180UH	1	G1C181KA0013
L4005	VLQ0651K391	COIL 390UH	1	G1C391KA0013
L5001,02	VLQ0319K330	COIL 33UH	2	G1C330KA0002
L5201,02	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L5251,52	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L5301-07	VLF1151A132	COIL	7	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P4001	VJP2278	CONNECTOR (MALE)	1	K1KA09A00087
P5001	VJS3375B060	CONNECTOR (FEMALE)	1	K1KB60B00011
P5002	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P5003	VJS3900C010	CONNECTOR (FEMALE)	1	K1MN10A00034
Q4001	2SB779-R	TRANSISTOR	1	
Q4003	2SD874-R	TRANSISTOR	1	
Q4005	2SB792-R	TRANSISTOR	1	
Q4006,07	2SD1149-R	TRANSISTOR	2	
Q4008,09	2SD1979	TRANSISTOR	2	
Q4010	2SB779-R	TRANSISTOR	1	
Q4011	2SD874-R	TRANSISTOR	1	
Q5001-04	2SC3935	TRANSISTOR	4	
Q5005,06	2SC2954	TRANSISTOR	2	
Q5007	2SA1532	TRANSISTOR	1	
Q5008	2SC2954	TRANSISTOR	1	
Q5009,10	2SK508K512	TRANSISTOR	2	
Q5011-14	XN1504	TRANSISTOR-RESISTOR	4	
Q5101,02	XN1504	TRANSISTOR-RESISTOR	2	
Q5103	2SA1532	TRANSISTOR	1	
Q5111	XN6537	TRANSISTOR-RESISTOR	1	
Q5112,13	2SC3930	TRANSISTOR	2	
Q5114,15	2SD1979	TRANSISTOR	2	
Q5116,17	XP6534	TRANSISTOR-RESISTOR	2	
Q5121	XN6537	TRANSISTOR-RESISTOR	1	
Q5122,23	2SC3930	TRANSISTOR	2	
Q5124,25	2SD1979	TRANSISTOR	2	
Q5126,27	XP6534	TRANSISTOR-RESISTOR	2	
Q5201	2SD601A	TRANSISTOR	1	
Q5202	2SB709A	TRANSISTOR	1	
Q5203,04	2SC3735B35	TRANSISTOR	2	
Q5251	2SD601A	TRANSISTOR	1	
Q5252	2SB709A	TRANSISTOR	1	
Q5253,54	2SC3735B35	TRANSISTOR	2	
Q5301	2SB1218A	TRANSISTOR	1	
Q5302	2SD1819A-R	TRANSISTOR	1	
QR4001	UN5113	TRANSISTOR-RESISTOR	1	
QR4003	UN5213	TRANSISTOR-RESISTOR	1	
QR4005,06	UN5213	TRANSISTOR-RESISTOR	2	
QR4007,08	UN5113	TRANSISTOR-RESISTOR	2	
QR4009,10	UN5213	TRANSISTOR-RESISTOR	2	
QR5001	UN5111	TRANSISTOR-RESISTOR	1	
QR5002	UN5211	TRANSISTOR-RESISTOR	1	
QR5003,04	UN5111	TRANSISTOR-RESISTOR	2	
QR5101	UN5113	TRANSISTOR-RESISTOR	1	
QR5201	UN5211	TRANSISTOR-RESISTOR	1	
QR5251	UN5211	TRANSISTOR-RESISTOR	1	
QR5301	UN5211	TRANSISTOR-RESISTOR	1	
R4001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4002	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4003	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4005	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4006	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4007	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4009	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4010	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4011	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4013	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4014	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4017	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4020	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4021	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4022	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4023,24	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4025	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4026	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4027	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4028	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4029	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4030	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R4032	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4033	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4034	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4035	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4036	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4037	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4038	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4039	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4040	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4041	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4042	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4043,44	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4045	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4046	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4047,48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4049	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4050	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4051	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5001	D1H84734A008	COMBI.R-R	1	
R5002	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5003	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5004	D1H810140001	COMBI.R-R	1	
R5005,06	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5011	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5012,13	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5014,15	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R5016,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5018,19	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	2	
R5020,21	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R5022,23	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R5024	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R5025	ERJ12YJ270	M.RESISTOR CH 1/2W 270	1	
R5028-31	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	4	
R5032,33	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5034	ERJ6RED820	M.RESISTOR CH 1/10W 82	1	
R5035	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5036-39	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R5040	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5041,42	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5043-46	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R5050	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5051,52	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5053-56	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R5101	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5111	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5112-15	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R5116	D1H84734A008	COMBI.R-R	1	
R5117,18	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R5119-21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R5131,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5133	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5134	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5135,36	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5137,38	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5139,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5141	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R5142	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5143	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5144,45	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5146,47	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5148,49	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5150	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5151-54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5155	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5156	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5161,62	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5163	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5164	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5165,66	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5167,68	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5169,70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5171	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R5172	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5173	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5174,75	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5176,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5178,79	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5180	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5181-84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5186	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5202	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5205	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5206	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5207	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5208	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5209	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5210	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5211	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5212	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5213	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5214	ERJ6RED270	M.RESISTOR CH 1/10W 27	1	
R5215,16	ERJ3RED560	M.RESISTOR CH 1/16W 56	2	
R5217	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5218	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5219	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5220	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5252	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5253	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5256	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5257	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5258	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5259	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5260	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5261	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5262	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5263	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5264	ERJ6RED270	M.RESISTOR CH 1/10W 27	1	
R5265,66	ERJ3RED560	M.RESISTOR CH 1/16W 56	2	
R5267	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5268	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5269	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5270	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5301	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5302	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R5303	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R5304	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5311,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5313-17	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
RY4001	VSY2176	RELAY	1	K6B2CDA00045
RY5001	VSY2176	RELAY	1	K6B2CDA00045
RY5301	VSY2176	RELAY	1	K6B2CDA00045
T4001	VLT0729	TRANSFORMER	1	
T4003	VLT0729	TRANSFORMER	1	
TG4001	EYF6CU	TEST POINT	1	
TG5001	EYF6CU	TEST POINT	1	
TP4001,02	EYF6CU	TEST POINT	2	
TP4005,06	EYF6CU	TEST POINT	2	
TP5001	EYF6CU	TEST POINT	1	
VR4001	EVMEGSA00B54	V.RESISTOR 50K	1	
		MISCELLANEOUS		
	VMP5846	HOLDER ANGLE	1	
	VYQ1745	SHIELD CASE (UPPER) ASS'Y	1	
	VSC4933	SHIELD HOLDER ANGLE	1	
	VSC4934	SHIELD ANGLE	1	
	VSC4928	EARTH FINGER	1	
	XSN26+3	SCREW	1	
	VSC4386	SHIELD CASE (MIDDLE)	1	
	XTV3+6FFR	SCREW	2	
	VSC4437	SHIELD CASE (LOWER)	1	
	VMZ2588	BARRIER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E10	VEP80C14A	MOTHER P.C.BOARD	1	(RTL)
C1,C2	ECA1CHG682	E.CAPACITOR 16V 6800U	2	
D1	21DQ04	DIODE	1	B0JAME000021
L1,L2	VLP0017	COIL	2	J0JHB0000010
P1	K1KB96A00048	CONNECTOR (FEMALE)	1	
P3-P9	K1KB96A00048	CONNECTOR (FEMALE)	7	
P11-15	K1KB96A00048	CONNECTOR (FEMALE)	5	
P16	VJP3375A060	CONNECTOR (MALE)	1	K1KA60A00083
P17	K1KB96A00048	CONNECTOR (FEMALE)	1	
P18,19	K1KA08A00283	CONNECTOR (MALE)	2	
P20	K1KB22B00010	CONNECTOR (FEMALE)	1	
P21	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
		MISCELLANEOUS		
	VKC0392	SPACER	1	
	VMP6815	JACK PB GUIDE ANGLE (B)	1	
	VMP6817	MOTHER ANGLE (B)	1	
	VMP6816	MOTHER ANGLE (A)	1	
	VMP6824	MOTHER ANGLE (C)	1	
	XYE3+EF8FZ	SCREW	8	
	XTV3+6F	SCREW	2	
■ E11	VEP82239A	MECHA I/F P.C.BOARD	1	(RTL)
C1,C2	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C6	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C9,10	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C11,12	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C14,15	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C16	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C151-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C160-63	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C164,65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C201-03	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
D1	MA147	DIODE	1	
D153,54	MA716	DIODE	2	
IC1,C2	0P177GS	IC	2	
IC3	NJM4580ED	IC	1	C0ABBB000123
IC4-C6	NJM4558M	IC	3	
IC151	NJM78L09UA	IC	1	C0CBAHC00002
IC152	NJM79L09UA	IC	1	C0CABBF00001
IC153-55	TVHC14FT	IC	3	
IC156,57	TVHC165FT	IC	2	
L151,52	VLF1151A132	COIL	2	
P11	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P12	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P13	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P14	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P15	VJP3518B002	CONNECTOR (MALE)	1	
P16	VJP3518B003	CONNECTOR (MALE)	1	
P17	VJS3801D015	CONNECTOR (FEMALE)	1	
P18	VJP3518B002	CONNECTOR (MALE)	1	
P19	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P20	VJP3518B003	CONNECTOR (MALE)	1	
P21	VJP3518B002	CONNECTOR (MALE)	1	
P22	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P24	VJP3518B002	CONNECTOR (MALE)	1	
P25	VJP1230T	CONNECTOR (MALE) 3P	1	
P26	VJP1236T	CONNECTOR (MALE) 9P	1	K1KA09A00023
P30	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P32	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P33	VJS3406B015	CONNECTOR (FEMALE)	1	
P34,35	VJS2889A017	CONNECTOR (FEMALE)	2	K1MN17A00008
P36	VJS3406B019	CONNECTOR (FEMALE)	1	
P48	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P151	VJS2899A096	CONNECTOR (FEMALE)	1	K1KB96A00035
Q1	2SB1218A-R	TRANSISTOR	1	
Q101-08	B1DZED000002	TRANSISTOR	8	
QR101-12	UN5213	TRANSISTOR-RESISTOR	12	
R1,R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R7,R8	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R9	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R10	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R11	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R12	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R13	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R14	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R15	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R16	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R17	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R18	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R19	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R20	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R21	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R22	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R24	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R25	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R26	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R27	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R101-04	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R105-07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R108,09	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R110	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R111,12	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R113-16	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R151-64	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	14	
R165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R166,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R168,69	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
VR1	EVMECSA00B24	V.RESISTOR 20K	1	
VR2	EVMECSA00B54	V.RESISTOR 50K	1	
VR201,02	EVMECSA00B24	V.RESISTOR 20K	2	
■ E12	VEP82240A	MECHA I/F 2 P.C.BOARD	1	(RTL)
C1,C2	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C6	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C9,10	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C11,12	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C14,15	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C16	EEVHB1C470	E.CAPACITOR 16V 47U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C151-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C160-63	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C164,65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C201-03	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
D1	MA147	DIODE	1	
D153,54	MA716	DIODE	2	
IC1,C2	0P177GS	IC	2	
IC3	NJM4580ED	IC	1	C0ABBB000123
IC4-C6	NJM4558M	IC	3	
IC151	NJM78L09UA	IC	1	C0CBAHC00002
IC152	NJM79L09UA	IC	1	C0CABBF00001
IC153-55	TVHC14FT	IC	3	
IC156,57	TVHC165FT	IC	2	
L151,52	VLF1151A132	COIL	2	
P11	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P12	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P13	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P14	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P15	VJP3518B002	CONNECTOR (MALE)	1	
P16	VJP3518B003	CONNECTOR (MALE)	1	
P17	VJS3801D015	CONNECTOR (FEMALE)	1	
P18	VJP3518B002	CONNECTOR (MALE)	1	
P19	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P20	VJP3518B003	CONNECTOR (MALE)	1	
P21	VJP3518B002	CONNECTOR (MALE)	1	
P22	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P24	VJP3518B002	CONNECTOR (MALE)	1	
P25	VJP1230T	CONNECTOR (MALE) 3P	1	
P26	VJP1236T	CONNECTOR (MALE) 9P	1	K1KA09A00023
P30	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P32	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P33	VJS3406B015	CONNECTOR (FEMALE)	1	
P34,35	VJS2889A017	CONNECTOR (FEMALE)	2	K1MN17A00008
P36	VJS3406B019	CONNECTOR (FEMALE)	1	
P48	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P151	VJS2899A096	CONNECTOR (FEMALE)	1	K1KB96A00035
P1001	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
P1002	K1KA96B00032	CONNECTOR (MALE)	1	
Q1	2SB1218A-R	TRANSISTOR	1	
Q101-08	B1DZED000002	TRANSISTOR	8	
QR101-12	UN5213	TRANSISTOR-RESISTOR	12	
R1,R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R7,R8	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R9	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R10	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R11	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R12	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R13	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R14	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R15	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R16	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R17	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R18	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R19	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R20	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R21	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R22	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R24	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R25	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R26	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R27	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R101-04	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R105-07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R108,09	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R110	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R111,12	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R113-16	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R151-64	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	14	
R165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R166,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R168,69	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
VR1	EVMECSA00B24	V.RESISTOR 20K	1	
VR2	EVMECSA00B54	V.RESISTOR 50K	1	
VR201,02	EVMECSA00B24	V.RESISTOR 20K	2	
		MISCELLANEOUS		
	VMP6808	CONNECTION PB ANGLE	1	
	XTV3+6F	SCREW	2	
■ E13	VEP81221A	POWER 1 P.C.BOARD	1	(RTL)
C1002,03	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1004	ECHU1H471GB	P.CAPACITOR 50V 470P	1	
C1005	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	
C1006	ECA1HXL010	E.CAPACITOR 50V 1U	1	
C1007	ECQE6473KF	P.CAPACITOR 630V 0.047U	1	
C1008	VCK0106K221	C.CAPACITOR 220P	1	
C1009	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C1010	ECUX1H562KBV	C.CAPACITOR CH 50V 5600P	1	
C1011	ECA1VXL470	E.CAPACITOR 35V 47U	1	
C1012	ECA1HXL330	E.CAPACITOR 50V 33P	1	
C1015	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1017	ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C1101	ECA1HXL100	E.CAPACITOR 50V 10U	1	
⚠ C1107	ECQU2A474ML	P.CAPACITOR 100V 0.47U	1	
⚠ C1109	VCK0262M222A	C.CAPACITOR 2200P	1	F1BAH2220002
C1110,11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C1114	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	1	
C1116	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1117	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1119	ECQV1H684JF	P.CAPACITOR 50V 0.68U	1	
⚠ C1120	VCK0262M102A	C.CAPACITOR 1000P	1	F1BAH1020001
C1122	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1123	ECQE2W225KC	P.CAPACITOR 450V 2.2U	1	
C1124	EEUFC1H121L	E.CAPACITOR 50V 120U	1	
C1125	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C1126	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C1127	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1128	ECQF6222JZ	P.CAPACITOR 630V 2200P	1	
C1129	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1130,31	VCK0106K471	C.CAPACITOR 470P	2	
C1132	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1133,34	VCK0106K471	C.CAPACITOR 470P	2	
C1135	ECEC2WC151CB	E.CAPACITOR 450V 150P	1	
C1138	ECA1HXL100	E.CAPACITOR 50V 10U	1	
⚠ C1139	VCK0262M222A	C.CAPACITOR 2200P	1	F1BAH2220002
C1140	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1201-10	ECQE6473KF	C.CAPACITOR 1000P	10	
C1211-14	EEUFC1A682	E.CAPACITOR 10V 6800U	4	
C1215	EEUFC1E182	E.CAPACITOR 25V 1800U	1	
C1217	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C1218	EEUFC1A682	E.CAPACITOR 10V 6800U	1	
C1219,20	EEUFC1E102LE	E.CAPACITOR 25V 1000U	2	
C1221	EEUFC1A682	E.CAPACITOR 10V 6800U	1	
C1222	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C1223	ECA1EXL101	E.CAPACITOR 25V 100U	1	
C1224-26	ECA1CXL101	E.CAPACITOR 16V 100U	3	
C1227,28	ECA1EXL101	E.CAPACITOR 25V 100U	2	
C1229,30	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C1231	ECA1CXL101	E.CAPACITOR 16V 100U	1	
C1232	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1233	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1234	ECA1HXL100	E.CAPACITOR 50V 10U	1	
C1235	ECA1HXL2R2	E.CAPACITOR 50V 2.2U	1	
C1236,37	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C1239	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C1240,41	ECQE6473KF	C.CAPACITOR 1000P	2	
C1242	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1243	ECA1EXL101	E.CAPACITOR 25V 100U	1	
C1244	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
D1001	MA142WA	DIODE	1	
D1002	MA142K	DIODE	1	
D1003	MA3240-H	DIODE	1	
D1005	EG01C	DIODE	1	B0HAGV000001
D1006	MA3051-M	DIODE	1	
D1007	SFPL-52	DIODE	1	
D1008	MA3200-M	DIODE	1	
D1009,10	SFPL-52	DIODE	2	
D1013	SFPL-52	DIODE	1	
D1101,02	MA3200-M	DIODE	2	
D1103	MA3068-M	DIODE	1	
D1104	MA142K	DIODE	1	
D1105,06	ERA15-08	DIODE	2	B0AAMT000001
D1107	MA142K	DIODE	1	
D1108	MA1070400L	DIODE	1	
D1109	RBV606	DIODE	1	
D1110	MA701A	DIODE	1	
D1111,12	MA3200-M	DIODE	2	
D1113-15	SFPL-52	DIODE	3	
D1116	MA3068-M	DIODE	1	
D1117	MA142K	DIODE	1	
D1118	FML-G26S	DIODE	1	
D1119,20	ERA15-08	DIODE	2	B0AAMT000001
D1201	FMBG24H	DIODE	1	
D1202,03	FML-G12SP	DIODE	2	
D1204	D20LC20U	DIODE	1	B0HBSM000021
D1205	FML-G12SP	DIODE	1	
D1206	MA142WA	DIODE	1	
D1207	FML-G12SP	DIODE	1	
D1208	MA142K	DIODE	1	
D1209	MA3160-L	DIODE	1	
D1210	MA142K	DIODE	1	
D1211	MA3100-M	DIODE	1	
D1212	MA3051-M	DIODE	1	
D1213	MA3240-H	DIODE	1	
D1214	MA3160-L	DIODE	1	
D1215	MA3100-M	DIODE	1	
D1216-18	MA142K	DIODE	3	
D1219	MA3027-H	DIODE	1	
D1221	MA3027-H	DIODE	1	
D1222-24	MA142K	DIODE	3	
IC1001	FA5311BP	IC	1	C0DAAZZ00002
IC1101	MC33262P	IC	1	C0DAZZZ00013
IC1102	M51945BL	IC	1	C0EAB0000004
IC1103	M51953BL	IC	1	C0EAH0000033
IC1201	UPC1944J	IC	1	C0DAZLB00001
IC1202	C0DAEZH00010	IC	1	
IC1203	UPC1093J	IC	1	C0DAEMC00002
IC1204	NJM2903M	IC	1	
IC1205	PQ30RV31	IC	1	
L1001	VLP0074	COIL	1	J0JDB0000002
⚠ L1102,03	ELF21N020A	FILTER	2	
L1104	VLQ0820	COIL	1	
L1201	VLQ0655K220	COIL 22UH	1	
L1202	VLQ0826M4R7	COIL 4.7UH	1	
L1203	VLQ0826M100	COIL 10UH	1	
L1204,05	VLQ0826K220	COIL 22UH	2	
L1206	VLQ0655K220	COIL 22UH	1	
P1103	VJP2638	CONNECTOR (MALE)	1	K1KA02A00112
P1201,02	K1KB08A00077	CONNECTOR (FEMALE)	2	
Q1001	B1DEFV000001	TRANSISTOR	1	

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Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ Q1002-04	PS2561L1V1WL	TRANSISTOR	3	B3QAZ0000030
Q1101	2SJ278	TRANSISTOR	1	
Q1102	TM1661S-L	DIODE	1	
Q1103	B1DEGR000013	TRANSISTOR	1	
Q1201	XN4501	TRANSISTOR-RESISTOR	1	
Q1202	XN4401	TRANSISTOR-RESISTOR	1	
Q1203	XN4501	TRANSISTOR-RESISTOR	1	
QR1001	UN2213	TRANSISTOR-RESISTOR	1	
QR1002	UN2111	TRANSISTOR-RESISTOR	1	
QR1101	UN2112	TRANSISTOR-RESISTOR	1	
QR1102	UN2215	TRANSISTOR-RESISTOR	1	
QR1103	UN2113	TRANSISTOR-RESISTOR	1	
QR1104,05	UN2213	TRANSISTOR-RESISTOR	2	
QR1201	UN2211	TRANSISTOR-RESISTOR	1	
QR1202	UN2214	TRANSISTOR-RESISTOR	1	
QR1203	UN2111	TRANSISTOR-RESISTOR	1	
QR1204	UN2214	TRANSISTOR-RESISTOR	1	
QR1205	UN2111	TRANSISTOR-RESISTOR	1	
QR1206,07	UN2213	TRANSISTOR-RESISTOR	2	
R1002	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1003	VRT0142	THERMISTOR	1	D4DDB3310005
R1004	ERW1PKR33	W.RESISTOR 1W 0.33	1	
R1005	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1006	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1007	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R1008,09	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1010	ERG2SJ180	M.RESISTOR 2W 18	1	
R1011	ERJ6RBD241	M.RESISTOR CH 1/10W 240	1	
R1012	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R1013	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1014	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1015	ERJ12YJ220	M.RESISTOR CH 1/2W 22	1	
R1016,17	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1018	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R1019	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1020	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1021	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1022	ERJ14YJ4R7	M.RESISTOR CH 1/4W 4.7	1	
R1101,02	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1103	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1104	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R1105	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1107	ERJ3RED224	M.RESISTOR CH 1/16W 220K	1	
R1108	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1109	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R1110	ERJ3RED334	M.RESISTOR CH 1/16W 330K	1	
R1112-14	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	
R1115,16	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R1117,18	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	2	
R1119	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1121,22	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1123,24	ERJ12YJ683	M.RESISTOR CH 1/2W 63K	2	
⚠ R1125	ERU5TEJ100	F.RESISTOR 5W 10	1	
R1127-30	ERJ12YJ683	M.RESISTOR CH 1/2W 63K	4	
R1131	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1132	ERG2SJ221	M.RESISTOR 2W 220	1	
R1133	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1134	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1135	ERJ12YJ100	M.RESISTOR CH 1/2W 10	1	
R1136	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1137	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1139	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1140	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1141	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1142,43	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1144	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	1	
R1145	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1146	ERJ12YJ472	M.RESISTOR CH 1/2W 4.7K	1	
R1147	ERG2SJ220	M.RESISTOR 2W 22	1	
R1148	ERF2TKR15	W.RESISTOR 2W 0.15	1	
R1150-52	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1153	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R1154	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1155	ERG2SJ220	M.RESISTOR 2W 22	1	
R1161	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1165	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R1167-69	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1201	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R1202,03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1204-08	ERG2SJ220	M.RESISTOR 2W 22	5	
R1209	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R1210,11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1212	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1213	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1215	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1216,17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1218,19	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R1220	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1221	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R1222	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R1223	ERJ3RBD621	M.RESISTOR CH 1/16W 620	1	
R1224	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R1225	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1226	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1227	VRT0033	THERMISTOR	1	D4DDB3310004
R1228,29	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R1230	ERX2SJ0R1	M.RESISTOR 2W 0.1	1	
R1231	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1232	ERX2SJ0R1	M.RESISTOR 2W 0.1	1	
R1233	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1234	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1235	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1237-39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R1240	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1241	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1242	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1244	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1245	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1247	ERG2SJ470	M.RESISTOR 2W 47	1	
R1248	ERG2SJ221	M.RESISTOR 2W 220	1	
R1249	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1250,51	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1252	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1253	ERG2SJ220	M.RESISTOR 2W 22	1	
R1254	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R1255	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
⚠ T1001	ETS42AE326AD	TRANSFORMER	1	
VR1102	EVMEASA00B52	V.RESISTOR 500	1	
VR1201	EVMEASA00B13	V.RESISTOR 1K	1	
		MISCELLANEOUS		
	VJR1008	EARTH LUG	4	
	VMZ1608	CAPACITOR TUBE	3	
	VSC5221	HEAT SINK (A)	1	
	VSC5222	HEAT SINK B	1	
	VLP0336	FERRITE CORE	4	
	VLP0394	FERRITE BEAD	3	J0KE00000032
	VMZ2919	BARRIER	1	
	XYN3+F6FZS	SCREW	2	
	XYN3+F8FZS	SCREW	9	
	XYN3+F10	SCREW	3	
	VJF1348	CLAMPER	1	
■ E14	VEP81222A	POWER 2 P.C.BOARD	1	(RTL)
⚠ C1502	VCK0262K101A	C.CAPACITOR 100P	1	F1BAH101A001
⚠ C1503	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1504	VCK0262K101A	C.CAPACITOR 100P	1	F1BAH101A001

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ L1501	ELF19N020A	FILTER	1	
P1501	VJS2985	AC INLET	1	K2AH3H000012
P1502	VJP2638	CONNECTOR (MALE)	1	K1KA02A00112
⚠ R1506	ERC12AGM334	S.RESISTOR 1/2W 330K	1	
		MISCELLANEOUS		
	VMZ1608	CAPACITOR TUBE	2	
	EYF52BC	FUSE HOLDER	2	
⚠	VSF0106C31H	FUSE	1	
	VJR1008	EARTH LUG	2	
	VEE9627	FG CABLE	1	
⚠	VMP6812	AC IN HOLDER ANGLE	1	
	XSN3+6FZ	SCREW	2	
	XYN3+F8	SCREW	2	
	XYN4+E6VW	SCREW	1	
	VMZ0429	FUSE COVER	1	
■ E15	VEP80C13A	AV JACK P.C.BOARD	1	(RTL)
C1	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C2	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C3,C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C6-C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C9,10	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C11,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C13,14	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C15-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C24,25	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C26	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C27,28	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C150	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C151,52	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	2	
C155	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C157	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C158	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C160	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
D1	MA716	DIODE	1	
IC1	NJM78L09UA	IC	1	C0CBAHC00002
IC2	NJM79L09UA	IC	1	C0CABBF00001
IC3	XC62FP5002P	IC	1	
IC4	XC62DN5002P	IC	1	
IC5	XC62FP5002P	IC	1	
IC6	XC62DN5002P	IC	1	
IC7	NJM360M	IC	1	
IC150	C0JBAB000243	IC	1	
J1	VJS3902	CONNECTOR (FEMALE)	1	K1CB204H0002
J2	VJS3901	CONNECTOR (FEMALE)	1	K1CB204H0004
J3,J4	K4BA04A00002	TERMINAL	2	
J5-J7	VJS3902	CONNECTOR (FEMALE)	3	K1CB204H0002
J8	VJS3901	CONNECTOR (FEMALE)	1	K1CB204H0004
J9	VJS3902	CONNECTOR (FEMALE)	1	K1CB204H0002
J10	VJP3414A009	CONNECTOR (MALE)	1	K1FB109A0016
J12	VJP3414A015	CONNECTOR (MALE)	1	K1FB115A0008
J13	VJP3414A025	CONNECTOR (MALE)	1	K1FB125A0011
J16	VJS3417	CONNECTOR (FEMALE)	1	K1AB103A0007
J17	VJP3417	CONNECTOR (MALE)	1	K1AA103A0003
J18	K2HA101A0012	JACK	1	
J20	VJS3417	CONNECTOR (FEMALE)	1	K1AB103A0007
J21	VJP3417	CONNECTOR (MALE)	1	K1AA103A0003
L2	VLP0145	COIL	1	
L4	VLP0145	COIL	1	
L6	VLP0145	COIL	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L8,L9	VLP0145	COIL	2	
L11	VLP0145	COIL	1	
L13	VLP0145	COIL	1	
L15	VLP0145	COIL	1	
L17	VLP0145	COIL	1	
L18	VLQ0426J1R8	COIL 1.8UH	1	G1C1R8J00007
L150	VLQ0319K470	COIL 47UH	1	G1C470K00013
P1	VJS3814	CONNECTOR (FEMALE)	1	K1KB96A00037
P2	VJP1243T	CONNECTOR (MALE) 3P	1	
P100	VJP1246T	CONNECTOR (MALE) 6P	1	
Q1,Q2	2SC2295-C	TRANSISTOR	2	
Q150,51	2SC3930	TRANSISTOR	2	
Q152	2SA1532	TRANSISTOR	1	
Q153	2SC3930	TRANSISTOR	1	
Q154	2SA1532	TRANSISTOR	1	
R1-R3	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	3	
R4	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R5,R6	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	2	
R7	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R8	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R9	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R10	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R11	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R12	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R13	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R14	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R15	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R20	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R21	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R22	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R23-25	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R26	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R30-45	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	16	
R101	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R153,54	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R155	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R156	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R157,58	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R159	ERJ6GEYG750	M.RESISTOR CH 1/10W 75	1	
SW1,W2	VSS0307	SWITCH	2	K0D122A00105
		MISCELLANEOUS		
	VMP4866	D SUB ANGLE	1	
	VXQ0102	SCREW	6	K1YE50000008
	XYN26+F8	SCREW	2	
	VMP6814	JACK PB GUIDE ANGLE (A)	1	
	VSC5248	EARTH ANGLE	2	
■ E16	VEP86315A	FRONT P.C.BOARD	1	(RTL)
C1-C7	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C50,51	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C52	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C53	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C54	EEUFC1A681	E.CAPACITOR 10V 680U	1	
C55,56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C57	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C58	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C60	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C104	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C105	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C106	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C107	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C108-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C114,15	EEVHB1C470	E.CAPACITOR 16V 47U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C116,17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C119	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C120	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C121	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
D1	LN28RCPP	LED	1	
D2-D5	LN38GCPP	LED	4	
D6	MA716	DIODE	1	
D7,D8	LN48YCPP	LED	2	
D9,10	LN38GCPP	LED	2	
D25	MA4300-M	DIODE	1	
D26	MA166	DIODE	1	
D27	MA4062M	DIODE	1	
D28,29	MA166	DIODE	2	
D101-07	MA716	DIODE	7	
DP1	VSL0489	DISPLAY	1	A2BA00000191
IC1-C4	TVHC165FT	IC	4	
IC5	TC74HC4094F	IC	1	C0JBAQ000104
IC6	TC74HC4050AF	IC	1	
IC7	UPD16310GF	IC	1	
IC8	TVHC123FT	IC	1	
IC9	XC62FP5002P	IC	1	
IC10	NJM2904M	IC	1	
IC11	NJM78L09UA	IC	1	C0CBAHC00002
IC12	NJM79L09UA	IC	1	C0CABBF00001
IC13	TVHT04FT	IC	1	
IC14	NJM78L09UA	IC	1	C0CBAHC00002
L1,L2	VLF1151A132	COIL	2	
P1	K1KA22C00001	CONNECTOR (MALE)	1	
P2	K1KB08C00003	CONNECTOR (FEMALE)	1	
Q6,Q7	2SC1815Y	TRANSISTOR	2	B1AACF000024
Q8	2SC3074Y	TRANSISTOR	1	
QR1-R7	UN2214	TRANSISTOR-RESISTOR	7	
R1-32	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	32	
R33-37	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	5	
R38	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R40	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R51	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R52	ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R54	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R55	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R58	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R59,60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R61,62	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R100	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R101	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R102	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R103	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R105	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R106	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R107	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R108,09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R110	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R111	D1H84734A008	COMBI.R-R	1	
R112,13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R116	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R118	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
SW2-W8	VSP1005	SWITCH	7	K0H1BA000148
SW9-16	VSP1031	SWITCH	8	K0H1BA000328
SW17-19	VSS0280	SWITCH	3	K0D123A00061
SW20	VSS0346	SWITCH	1	K0D123A00043
SW21,22	VSS0280	SWITCH	2	K0D123A00061
SW23	VSS0346	SWITCH	1	K0D123A00043

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
TR1	VLT0884	TRANSFORMER	1	G4ZZ00000366
VR1,R2	EVUFSA003B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VMX1858	LED SPACER	9	
	VJF1360	DISPLAY HOLDER	1	
	VSC5249	REFLECTION PLATE	1	
■ E17	VEP80C15A	HEAD PHONE P.C.BOARD	1	(RTL)
C1,C2	ECA1CHG682	E.CAPACITOR 16V 6800U	2	
C1001,02	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	2	
D1	21DQ04	DIODE	1	B0JAME000021
FL1001,02	VLF1016A223	FILTER	2	
IC1001	NJM4556AM	IC	1	
J1001	VJJ0378	M6 JACK	1	K2HB103B0019
L1,L2	VLP0017	COIL	2	J0JHB0000010
P1	K1KB96A00048	CONNECTOR (FEMALE)	1	
P3-P9	K1KB96A00048	CONNECTOR (FEMALE)	7	
P11-15	K1KB96A00048	CONNECTOR (FEMALE)	5	
P16	VJP3375A060	CONNECTOR (MALE)	1	K1KA60A00083
P17	K1KB96A00048	CONNECTOR (FEMALE)	1	
P18,19	K1KA08A00283	CONNECTOR (MALE)	2	
P20	K1KB22B00010	CONNECTOR (FEMALE)	1	
P21	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
P1001	K1KA08B00188	CONNECTOR (MALE)	1	
Q1001,02	2SD1328	TRANSISTOR	2	
R1001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1002	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1003	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1004	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1005	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1006	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1011	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1012	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1013	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1014	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1015	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1016	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
VR1001	EVUNCA040A14	V.RESISTOR 10K	1	
		MISCELLANEOUS		
	VMP6818	FRONT JACK ANGLE	1	
	XTV3+6F	SCREW	1	
	VMP5137	HEAD PHONE GND ANGLE	1	
	VKC0392	SPACER	1	
	VMP6815	JACK PB GUIDE ANGLE (B)	1	
	VMP6817	MOTHER ANGLE (B)	1	
	VMP6816	MOTHER ANGLE (A)	1	
	VMP6824	MOTHER ANGLE (C)	1	
	XYE3+EF8FZ	SCREW	8	
	XTV3+6F	SCREW	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E18	VEP80C16A	EJECT P.C.BOARD	1	(RTL)
SW2001	VSP1005	SWITCH	1	K0H1BA000148
		MISCELLANEOUS		
	VWJ03CN060AA	FLAT CABLE	1	
■ E19	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE) 9P	1	K1KA09B00028
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST (AJ-YA455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3000,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3002,03	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3004-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3007	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3008	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3100,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3103,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3107	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3200,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3202	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3203	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3204-06	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C3207	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3208	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3209	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C3210	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C3211	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C3212	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3213,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3215,16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3217	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3218	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3219	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3220	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3221	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3222	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C3223	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3224	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3225	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3226	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3227	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3228	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C3229	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3230	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3330-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3400-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3410,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3412	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3413-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3416	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3417	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3418	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3419	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3424	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3500-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3508-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3518	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3521-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3524	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3525-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3528	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3529	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3530	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3531	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3532	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
D3200	LN1251CAL	DIODE	1	
D3201,02	MA151K	DIODE	2	
IC3000	XC62FP2502PR	IC	1	
IC3102,03	NVHC541MTCX	IC	2	
IC3104	NVHC245MTCX	IC	1	
IC3105	74LCX245MTCX	IC	1	
IC3200	XC62FP5002P	IC	1	
IC3201	C1AB00001385	IC	1	
IC3202	XC62FP5002P	IC	1	
IC3203	GS9028-CKA	IC	1	C1AB00000365
IC3204	C1AB00001088	IC	1	
IC3205	XC62FP5002P	IC	1	
IC3300	74LCX541MTCX	IC	1	
IC3301	GS9023-CFY	IC	1	
IC3400	74LCX541MTCX	IC	1	
IC3401	GS9023-CFY	IC	1	
IC3402	C1AB00001386	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3404	XC62FP5002P	IC	1	
IC3405	NVHC541MTCX	IC	1	
IC3500,01	NVHC541MTCX	IC	2	
IC3502	C1ZBZ0001837	IC	1	
IP3503	C3ZBH0000010	IC	1	
IC3505	UPD6456T611Y	IC	1	C1AB00000555
IC3506	XC62FP5002P	IC	1	
IC3507	C1AB00001386	IC	1	
ID0	VVVSI3569	SOFTWARE	1	
J3200,01	VJP3461	CONNECTOR (MALE)	2	K1QZA1BA0001
J3400,01	VJP3461	CONNECTOR (MALE)	2	K1QZA1BA0001
J3500	VJP3461	CONNECTOR (MALE)	1	K1QZA1BA0001
L3000,01	VLF1151A132	COIL	2	
L3200	VLQ0426J015	COIL 15UH	1	
L3201,02	VLQ0426J010	COIL 1UH	2	
L3400,01	VLQ0426J010	COIL 1UH	2	
L3500,01	VLQ0426J010	COIL 1UH	2	
P3000	K1KA96B00032	CONNECTOR (MALE)	1	
P3500	VJP3125B008	CONNECTOR (MALE)	1	
QR3200	UN2214	TRANSISTOR-RESISTOR	1	
R3100,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3102-05	D1H84734A008	COMBI.R-R	4	
R3200	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R3201	ERJ3RED390	M.RESISTOR CH 1/16W 39	1	
R3202,03	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R3204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3205	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R3206,07	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R3209	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3211	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3212	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3213	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3214-17	ERJ3RED750	M.RESISTOR CH 1/16W 75	4	
R3218	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R3219-22	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R3223	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R3224	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R3225	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R3226-28	D1H810140001	COMBI.R-R	3	
R3229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3330	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3333	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3334	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3335	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R3336	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3400	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3401-04	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	4	
R3405-08	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R3409	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3410	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3413	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3415	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R3416-19	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R3420	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3421,22	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3423	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3424	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3500,01	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R3502-04	D1H833040002	COMBI.R-R	3	
R3505,06	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3508	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3509	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3510	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3511	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3512,13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3514	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3515	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3516-18	D1H810140001	COMBI.R-R	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3519	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3520	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3521	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3522-24	D1H810140001	COMBI.R-R	3	
R3526	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3528	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R3529	D1H833040002	COMBI.R-R	1	
R3530,31	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3533-37	ERJ6RED750	M.RESISTOR CH 1/10W 75	5	
R3538-41	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
TG3000	EYF6CU	TEST POINT	1	
TG3200	EYF6CU	TEST POINT	1	
TG3400	EYF6CU	TEST POINT	1	
		MISCELLANEOUS		
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST (AJ-YAD455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83559A	DIF P.C.BOARD	1	(RTL)
■ E2	VEP80C21A	DIF JACK P.C.BOARD	1	(RTL)
■ E1	VEP83559A	DIF P.C.BOARD	1	(RTL)
C201-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C204	EEVHB1C101P	E.CAPACITOR 16V 100U	1	
C205-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C210-13	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C214-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C218	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C219-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C222	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C223-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C227	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C228	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C230	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C233,34	VCEA1AAP330	E.CAPACITOR 10V 33U	2	
C301,02	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C305-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C401-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C501-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C507-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C512	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C513	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C514	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C515	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C516	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C519	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C601-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C701-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C802	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C901-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
D201,02	MA701A	DIODE	2	
D301,02	LN1251CAL	DIODE	2	
D701,02	LN1251CAL	DIODE	2	
IC201-04	XC62FP3202P	IC	4	
IC206	LT1086CM	IC	1	C0CBAYG00001
IC207	74AHC1G08DCK	IC	1	
IC208	NVHC541MTCX	IC	1	
IC209	TVS1129	IC	1	C0JBAZ000525
IC210	C0EBE0000074	IC	1	
IC301	M31010M6115H	IC	1	
IC302	74AHC1G32DCK	IC	1	
IC402	AK6440AF	IC	1	
IC403,04	M5256DVP10VL	IC	2	C3BBFC000171
IC405	IDT71V321L5F	IC	1	C3HBCC000023
IC501	TSB13LV11PBW	IC	1	
IC601	C9ZB00000370	IC	1	
IC704	NVHC244MTCX	IC	1	
IC705	X9144L7T100	IC	1	
IC801	S51V18165D6T	IC	1	
IC901	C0JBAZ001544	IC	1	
IC902	NVHC541MTCX	IC	1	
IC903	74LCX244MTCX	IC	1	
ID401	VVVSI3570B	SOFTWARE	1	
ID702	VVVSI3571A	SOFTWARE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
ID705	VVVSI3622	SOFTWARE	1	
IP401	C3FBLD000046	IC	1	
IP702	C3FBLD000046	IC	1	
L201-03	VLF1151A132	COIL	3	
L501,02	J0LC00000008	FILTER	2	
P101	K1KA96B00032	CONNECTOR (MALE)	1	
P401	VJS3791B020	CONNECTOR (FEMALE)	1	
P501	K1KA06B00120	CONNECTOR (MALE)	1	
P701,02	VJP3125B008	CONNECTOR (MALE)	2	
QR301,02	UN5213	TRANSISTOR-RESISTOR	2	
QR701,02	UN5213	TRANSISTOR-RESISTOR	2	
R201	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R202	D1H810240001	COMBI.R-R	1	
R203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R204	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R205	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R206	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R207	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R302	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R303	ERJ3GEYJ431	M.RESISTOR CH 1/16W 430	1	
R304	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R306	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R307,08	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R309,10	D1H84734A008	COMBI.R-R	2	
R316	D1H810240001	COMBI.R-R	1	
R317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R318	D1H810240001	COMBI.R-R	1	
R320-24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R325	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R327	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R328,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R403	D1H84734A008	COMBI.R-R	1	
R404-08	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R409	D1H810240001	COMBI.R-R	1	
R410	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R451	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R502	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R503,04	D1H84734A008	COMBI.R-R	2	
R506-08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R509	D1H84734A008	COMBI.R-R	1	
R510	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R511	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R512	ERJ6RBD622	M.RESISTOR CH 1/10W 6.2K	1	
R513,14	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R515	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R516,17	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R518	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R519	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R520	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R521,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R601-03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R604,05	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R606	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R607	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R608	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R623	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R626-28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	D1H810240001	COMBI.R-R	1	
R704	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R705	D1H810240001	COMBI.R-R	1	
R707-11	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	5	
R712	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R713	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R716	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R717	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R718,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R720	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R721	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R722	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

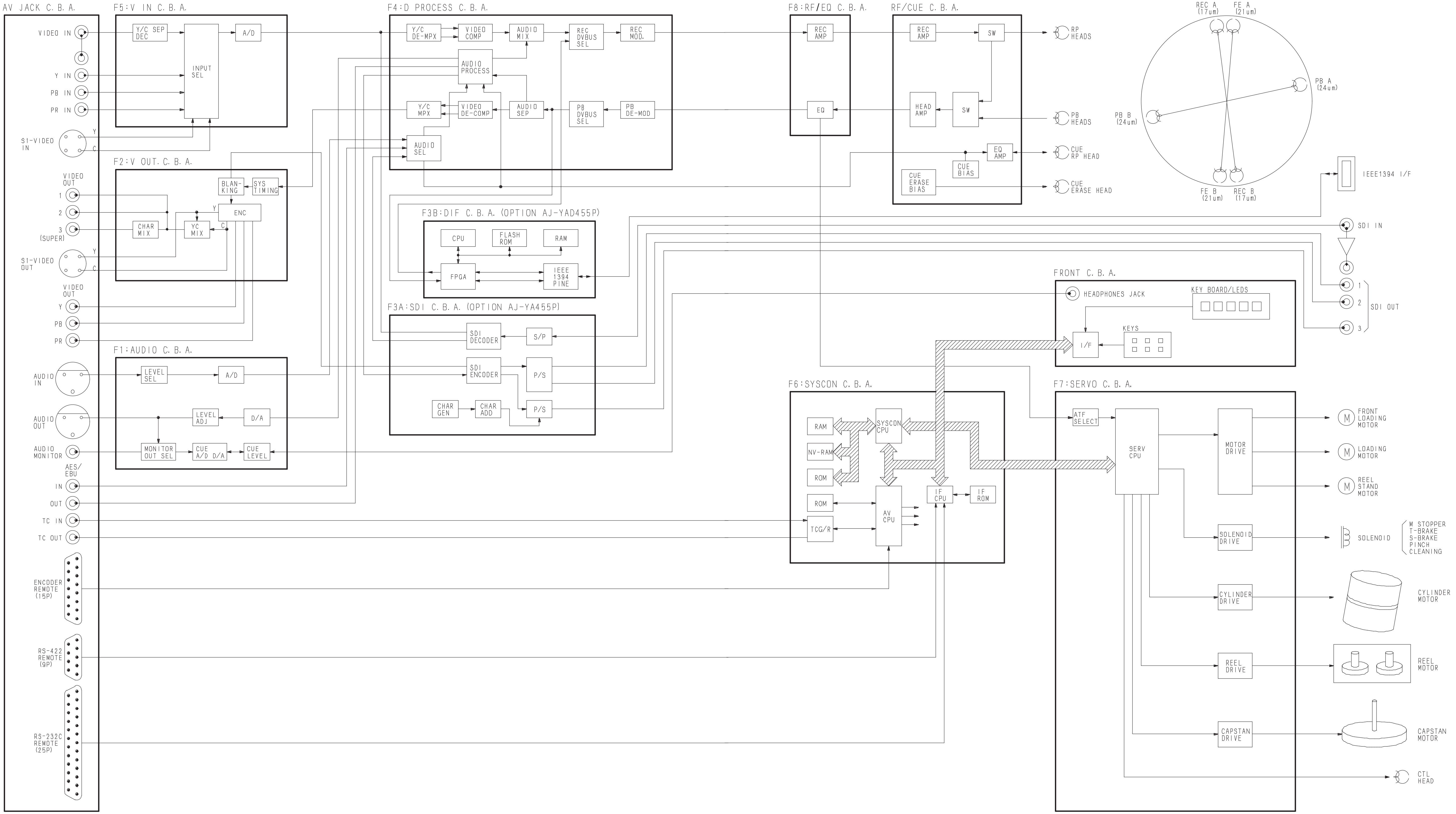
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R723	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R724	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R726,27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R728	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R732	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R733	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R734	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R735	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R736	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R747-49	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	3	
R904	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R905	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R907	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R908	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R909,10	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R912-14	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R916	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
SW201	VSP1005	SWITCH	1	K0H1BA000148
SW301	VSS0367-08B	SWITCH	1	
SW701	VSS0367-04B	SWITCH	1	
X301	VSX0883	CRYSTAL OSCILLATOR	1	H0J200500015
X501	VSX0974	CRYSTAL OSCILLATOR	1	H0J245500010
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
■ E2	VEP80C21A	DIF JACK P.C.BOARD	1	(RTL)
P101	VJP3993	CONNECTOR (MALE)	1	K1FB106B0003
P102	K1KA06B00120	CONNECTOR (MALE)	1	
R101-04	ERDS2T0	C.RESISTOR 1/4W 0	4	
SW2001	VSP1005	SWITCH	1	K0H1BA000148
		MISCELLANEOUS		
	VWJ03CN060AA	FLAT CABLE	1	
	VEE0N57	DIF CABLE	1	
	VJF1344	CONNECTOR HOLDER (1)	1	
	VJF1345	CONNECTOR HOLDER (2)	1	
	XYN2+J6	SCREW	4	
	VMP6821	OPTION ANGLE	1	
	XTN3+6FFY	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

Panasonic®

Printed in Japan
FCD0105NCKK80/E362/E363

OVERALL BLOCK DIAGRAM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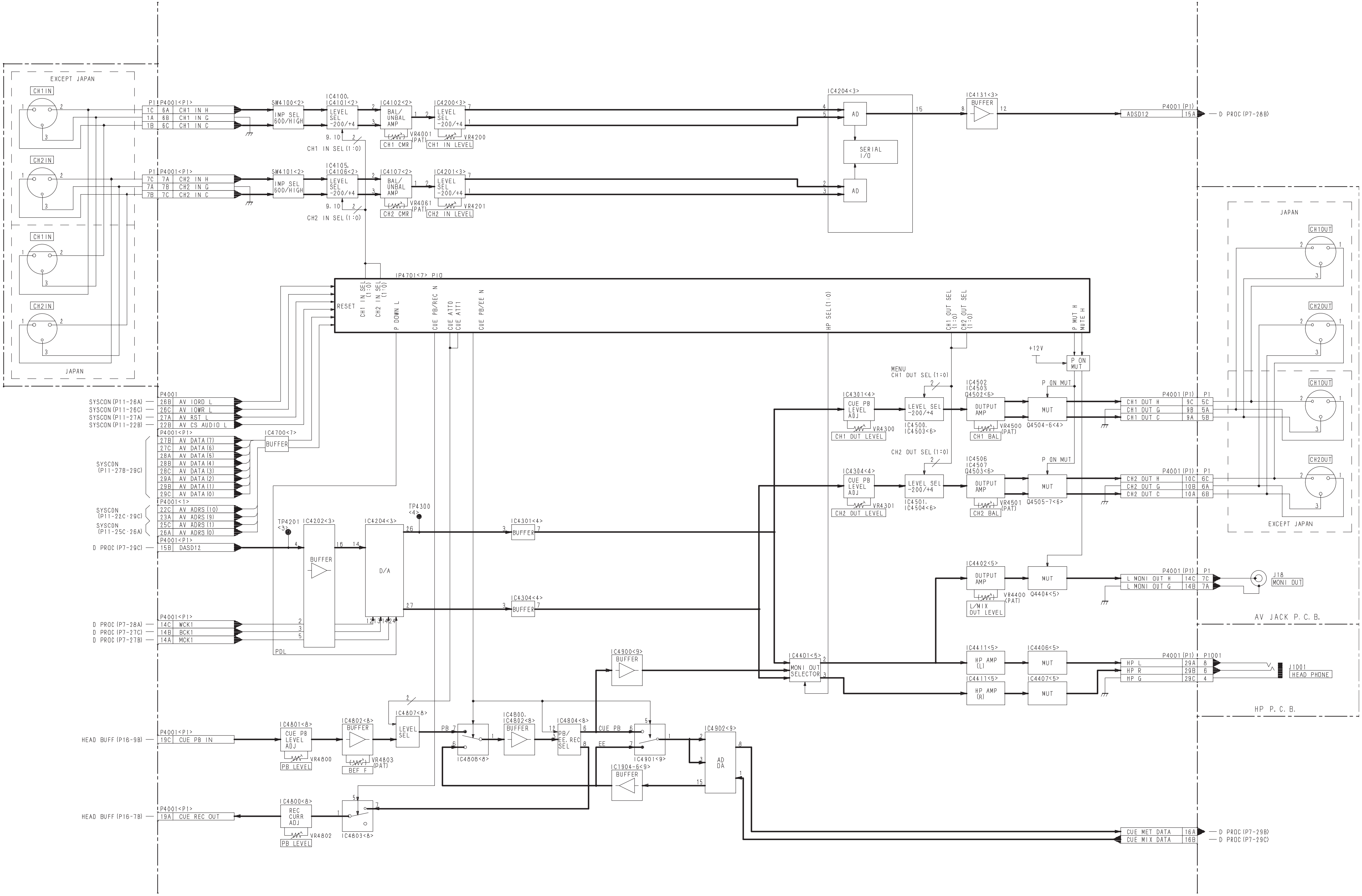
VIDEO IN
Y IN
PB IN
PR IN
S1-VIDEO IN
Y
C
VIDEO OUT
1
2
3 (SUPER)
S1-VIDEO OUT
VIDEO OUT
Y
PB
PR
AUDIO IN
AUDIO OUT
AUDIO MONITOR
AES/EBU
IN
OUT
TC IN
TC OUT
ENCODER REMOTE (15P)
RS-422 REMOTE (9P)
RS-232C REMOTE (25P)
F5:V IN C. B. A.
Y/C SEP DEC
INPUT SEL
A/D
F2:V OUT. C. B. A.
BLAN-KING
SYS TIMING
ENC
CHAR MIX
YC MIX
F1:AUDIO C. B. A.
LEVEL SEL
A/D
LEVEL ADJ
D/A
MONITOR OUT SEL
CUE A/D D/A
CUE LEVEL
F4:D PROCESS C. B. A.
Y/C DE-MPX
VIDEO COMP
AUDIO MIX
REC DVBUS SEL
REC MOD.
AUDIO PROCESS
Y/C MPX
VIDEO DE-COMP
AUDIO SEP
PB DVBUS SEL
PB DE-MOD
AUDIO SEL
F3B:DIF C. B. A. (OPTION AJ-YAD455P)
CPU
FLASH ROM
RAM
FPGA
IEEE 1394 PINE
F3A:SDI C. B. A. (OPTION AJ-YA455P)
SDI DECODER
S/P
SDI ENCODER
P/S
CHAR GEN
CHAR ADD
P/S
F8:RF/EQ C. B. A.
REC AMP
EQ
RF/CUE C. B. A.
REC AMP
SW
HEAD AMP
SW
EQ AMP
CUE BIAS
CUE ERASE BIAS
RP HEADS
PB HEADS
CUE RP HEAD
CUE ERASE HEAD
REC A (17um)
FE A (21um)
PB A (24um)
PB B (24um)
FE B (21um)
REC B (17um)
IEEE1394 I/F
SDI IN
1
2
3
SDI OUT
FRONT C. B. A.
HEADPHONES JACK
KEY BOARD/LEDS
KEYS
I/F
F6:SYSCON C. B. A.
RAM
NV-RAM
ROM
ROM
TCG/R
SYSCON CPU
AV CPU
IF CPU
IF ROM
F7:SERVO C. B. A.
ATF SELECT
SERV CPU
MOTOR DRIVE
SOLENOID DRIVE
CYLINDER DRIVE
REEL DRIVE
CAPSTAN DRIVE
M FRONT LOADING MOTOR
M LOADING MOTOR
M REEL STAND MOTOR
SOLENOID
M STOPPER
T-BRAKE
S-BRAKE
PINCH
CLEANING
CYLINDER MOTOR
REEL MOTOR
CAPSTAN MOTOR
CTL HEAD

F1:AUDIO BLOCK DIAGRAM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CH2IN
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1B 6C CH1 IN C
7C 7A CH2 IN H
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7B 7C CH2 IN C
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VR4061 (PAT)
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CH2 CMR
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CH2 IN LEVEL
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CH2 IN SEL(1:0)
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ADSD12
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CH2 IN SEL (1:0)
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CUE PB/REC N
CUE ATT0
CUE ATT1
CUE PB/EE N
HP SEL(1:0)
CH1 OUT SEL (1:0)
CH2 OUT SEL (1:0)
P MUT H
MUTE H
+12V
P ON MUT
SYSCON(P11-26A)
SYSCON(P11-26C)
SYSCON(P11-27A)
SYSCON(P11-22B)
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26C AV IOWR L
27A AV RST L
22B AV CS AUDIO L
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27C AV DATA(6)
28A AV DATA(5)
28B AV DATA(4)
28C AV DATA(3)
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29B AV DATA(1)
29C AV DATA(0)
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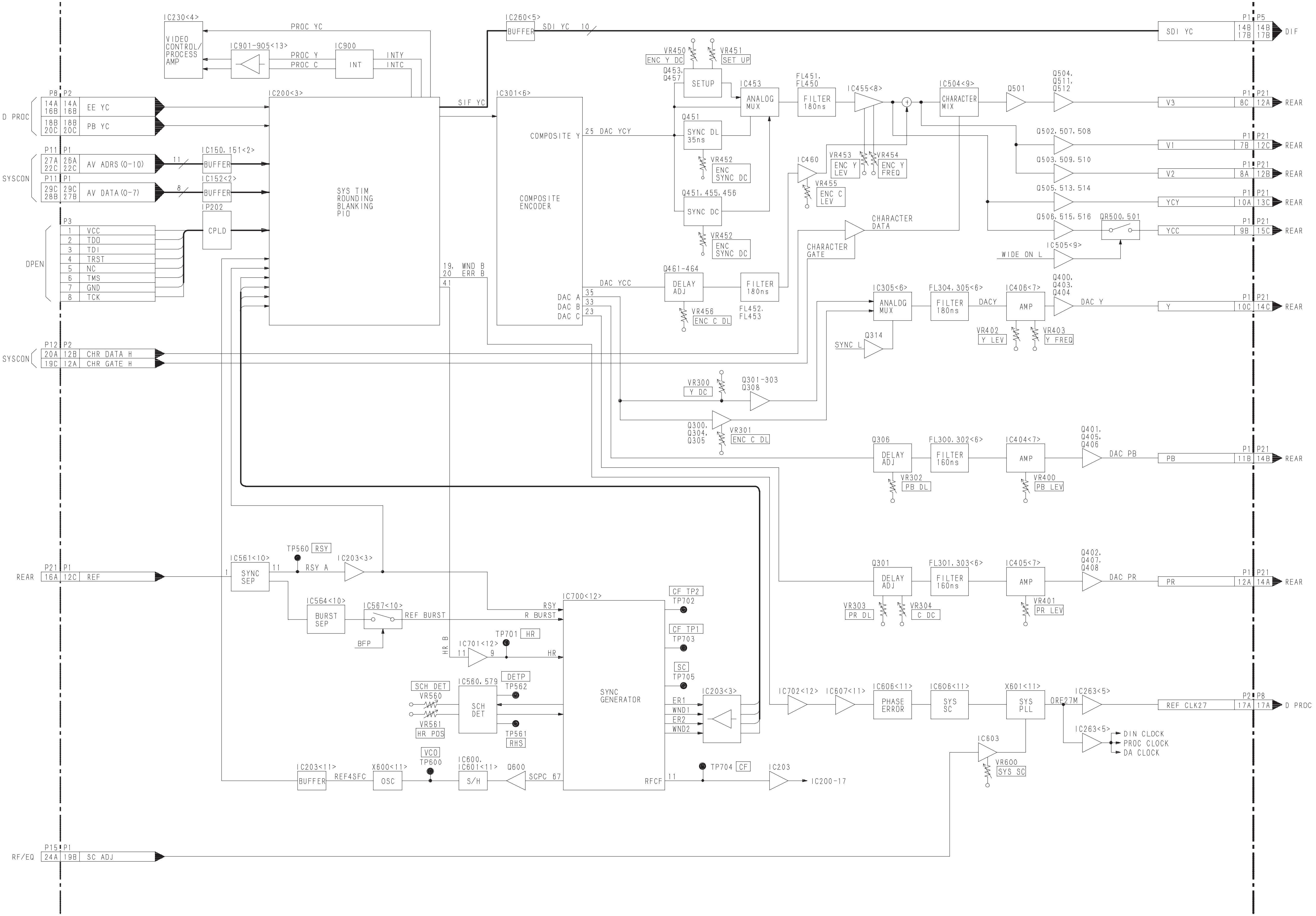
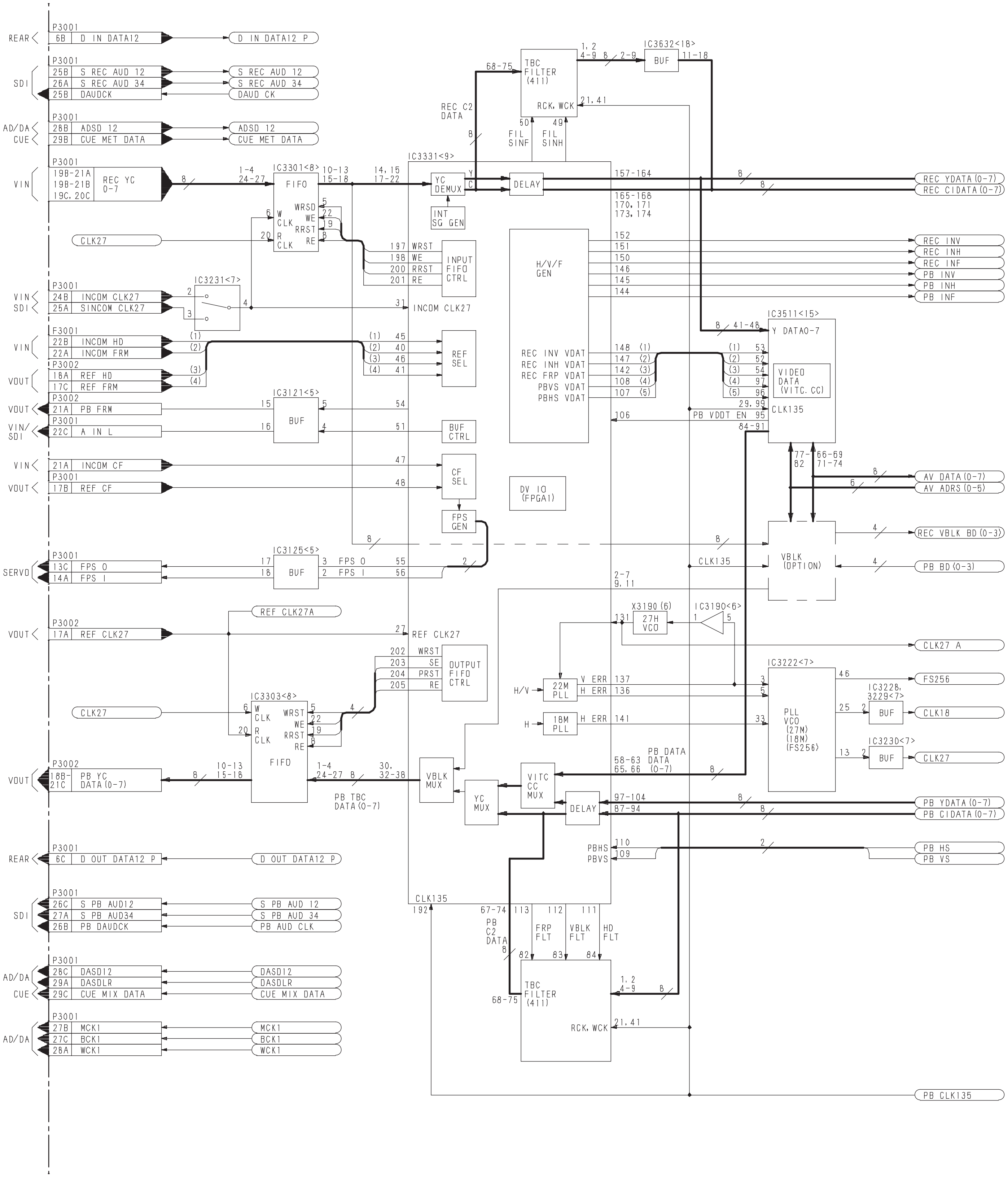
SYSCON (P11-25C-26A)
22C AV ADRS(10)
23A AV ADRS(9)
25C AV ADRS(1)
26A AV ADRS(0)
D PROC(P7-29C)
15B DASD12
TP4201 <3>
IC4202<3>
BUFFER
TP4300 <4>
IC4204<3>
D/A
PDL
D PROC(P7-28A)
D PROC(P7-27C)
D PROC(P7-27B)
14C WCK1
14B BCK1
14A MCK1
IC4301<4>
IC4304<4>
BUFFER
MENU
CH1 OUT SEL(1:0)
CH2 OUT SEL(1:0)
IC4301<4>
IC4304<4>
CUE PB LEVEL ADJ
VR4300
VR4301
CH1 OUT LEVEL
CH2 OUT LEVEL
LEVEL SEL -200/+4
IC4500, IC4503<6>
IC4501, IC4504<6>
IC4502
IC4503
Q4502<6>
IC4506
IC4507
Q4503<6>
OUTPUT AMP
VR4500 (PAT)
VR4501 (PAT)
CH1 BAL
CH2 BAL
P ON MUT
MUT
Q4504-6<4>
Q4505-7<6>
P4001(P1) P1
CH1 OUT H 9C 5C
CH1 OUT G 9B 5A
CH1 OUT C 9A 5B
CH2 OUT H 10C 6C
CH2 OUT G 10B 6A
CH2 OUT C 10A 6B
JAPAN
CH1OUT
CH2OUT
EXCEPT JAPAN
IC4402<5>
OUTPUT AMP
VR4400 (PAT)
L/MIX OUT LEVEL
Q4404<5>
L MONI OUT H 14C 7C
L MONI OUT G 14B 7A
J18
MONI OUT
AV JACK P. C. B.
IC4900<9>
BUFFER
IC4401<5>
MONI OUT SELECTOR
IC4411<5>
HP AMP (L)
HP AMP (R)
IC4406<5>
IC4407<5>
P4001(P1) P1001
HP L 29A 8
HP R 29B 6
HP G 29C 4
J1001
HEAD PHONE
HP P. C. B.
HEAD BUFF(P16-9B)
19C CUE PB IN
IC4801<8>
CUE PB LEVEL ADJ
VR4800
PB LEVEL
IC4802<8>
BUFFER
VR4803 (PAT)
BEF F
IC4807<8>
LEVEL SEL
PB
IC4808<8>
IC4800, IC4802<8>
BUFFER
IC4804<8>
PB/ EE, REC SEL
CUE PB
EE
IC4901<9>
IC4902<9>
AD DA
IC1904-6<9>
BUFFER
HEAD BUFF(P16-7B)
19A CUE REC OUT
IC4800<8>
REC CURR ADJ
VR4802
PB LEVEL
IC4803<8>
CUE MET DATA 16A
CUE MIX DATA 16B
D PROC(P7-29B)
D PROC(P7-29C)

F2:VIDEO OUT BLOCK DIAGRAM

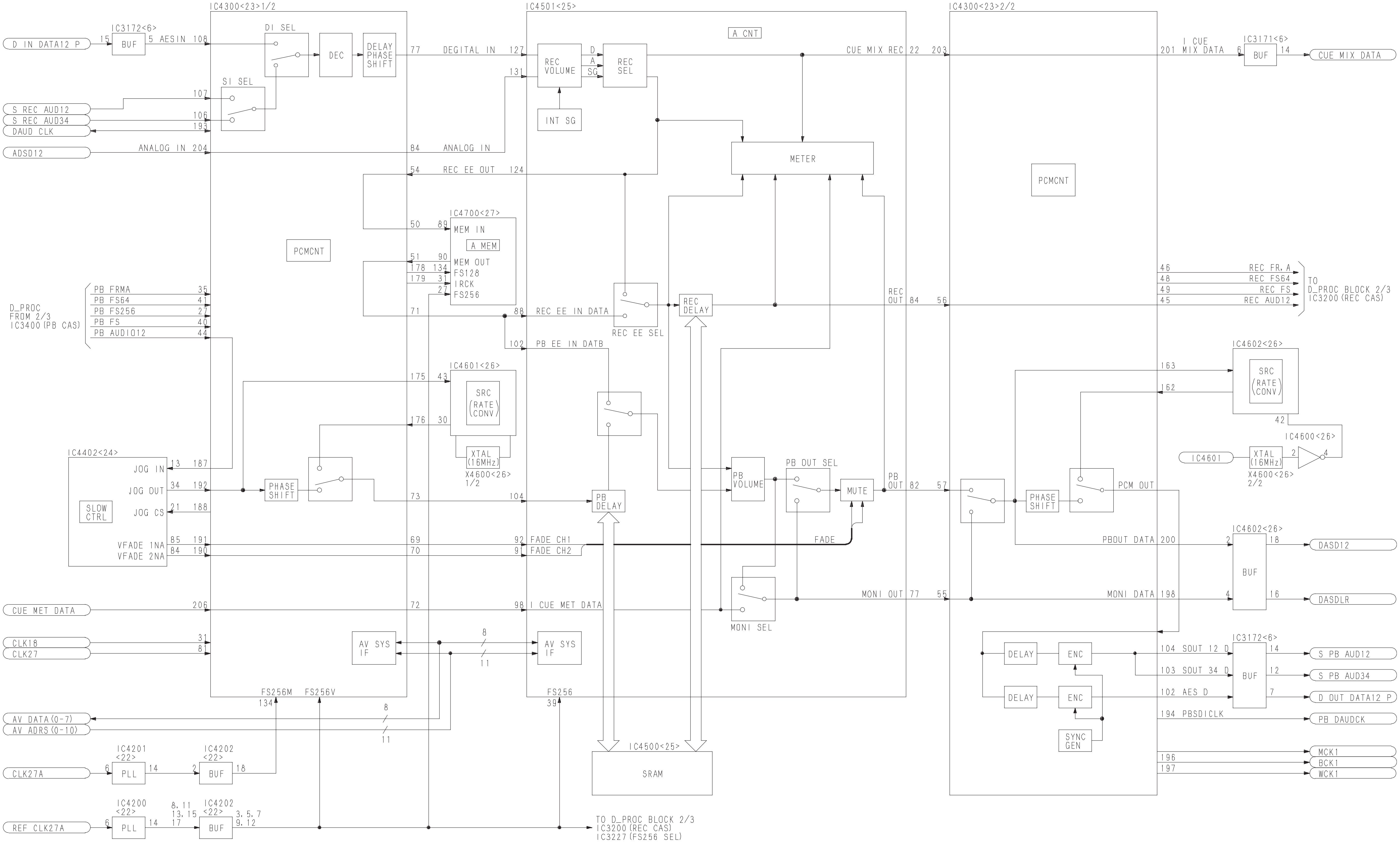

IC230<4>
VIDEO CONTROL/ PROCESS AMP
PROC YC
IC901-905<13>
IC900
INT
PROC Y
PROC C
INTY
INTC
IC260<5>
BUFFER
SDI YC 10
SDI YC
P1 P5
14B 14B
17B 17B
DIF
D PROC
P8 P2
14A 14A
16B 16B
EE YC
18B 18B
20C 20C
PB YC
SYSCON
P11 P1
27A 26A
22C 22C
AV ADRS(0-10)
11
IC150,151<2>
BUFFER
29C 29C
28B 27B
AV DATA(0-7)
8
IC152<2>
BUFFER
IP202
CPLD
OPEN
P3
1 VCC
2 TDO
3 TDI
4 TRST
5 NC
6 TMS
7 GND
8 TCK
IC200<3>
SYS TIM ROUNDING BLANKING PIO
SIF YC
19, WND B
20 ERR B
41
IC301<6>
COMPOSITE Y
COMPOSITE ENCODER
25 DAC YCY
DAC YCC
DAC A 35
DAC B 33
DAC C 23
VR450
ENC Y DC
VR451
SET UP
Q453, Q457
SETUP
IC453
ANALOG MUX
FL451, FL450
FILTER 180ns
IC455<8>
IC504<9>
CHARACTER MIX
Q501
Q504, Q511, Q512
V3
P1 P21
8C 12A
REAR
Q451
SYNC DL 35ns
VR452
ENC SYNC DC
Q451,455,456
SYNC DC
VR452
ENC SYNC DC
IC460
VR453
ENC Y LEV
VR454
ENC Y FREQ
VR455
ENC C LEV
Q502,507,508
V1
7B 12C
REAR
Q503,509,510
V2
8A 12B
REAR
Q505,513,514
YCY
10A 13C
REAR
Q506,515,516
QR500,501
YCC
9B 15C
REAR
CHARACTER DATA
CHARACTER GATE
IC505<9>
WIDE ON L
Q461-464
DELAY ADJ
FILTER 180ns
VR456
ENC C DL
FL452, FL453
IC305<6>
ANALOG MUX
FL304,305<6>
FILTER 180ns
DACY
IC406<7>
AMP
Q400, Q403, Q404
DAC Y
Y
10C 14C
REAR
Q314
SYNC L
VR402
Y LEV
VR403
Y FREQ
SYSCON
P12 P2
20A 12B
CHR DATA H
19C 12A
CHR GATE H
VR300
Y DC
Q301-303 Q308
Q300, Q304, Q305
VR301
ENC C DL
Q306
DELAY ADJ
FL300,302<6>
FILTER 160ns
IC404<7>
AMP
Q401, Q405, Q406
DAC PB
PB
11B 14B
REAR
VR302
PB DL
VR400
PB LEV
Q301
DELAY ADJ
FL301,303<6>
FILTER 160ns
IC405<7>
AMP
Q402, Q407, Q408
DAC PR
PR
12A 14A
REAR
VR303
PR DL
VR304
C DC
VR401
PR LEV
REAR
P21 P1
16A 12C
REF
TP560
RSY
IC561<10>
SYNC SEP
1
11
RSY A
IC203<3>
IC564<10>
BURST SEP
IC567<10>
REF BURST
BFP
IC700<12>
RSY
R BURST
HR B
IC701<12>
11
9
TP701
HR
HR
CF TP2
TP702
CF TP1
TP703
SC
TP705
SYNC GENERATOR
IC203<3>
ER1
WND1
ER2
WND2
SCH DET
VR560
VR561
HR POS
IC560,579
SCH DET
DETP
TP562
TP561
RHS
VCO
TP600
IC203<11>
BUFFER
REF4SFC
X600<11>
OSC
IC600, IC601<11>
S/H
Q600
SCPC 67
RFCF
11
TP704
CF
IC203
IC200-17
IC702<12>
IC607<11>
IC606<11>
PHASE ERROR
IC606<11>
SYS SC
X601<11>
SYS PLL
ORF27M
IC263<5>
REF CLK27
P2 P8
17A 17A
D PROC
IC263<5>
DIN CLOCK
PROC CLOCK
DA CLOCK
IC603
VR600
SYS SC
RF/EQ
P15 P1
24A 19B
SC ADJ

F4:D PROCESS BLOCK DIAGRAM (1/3)

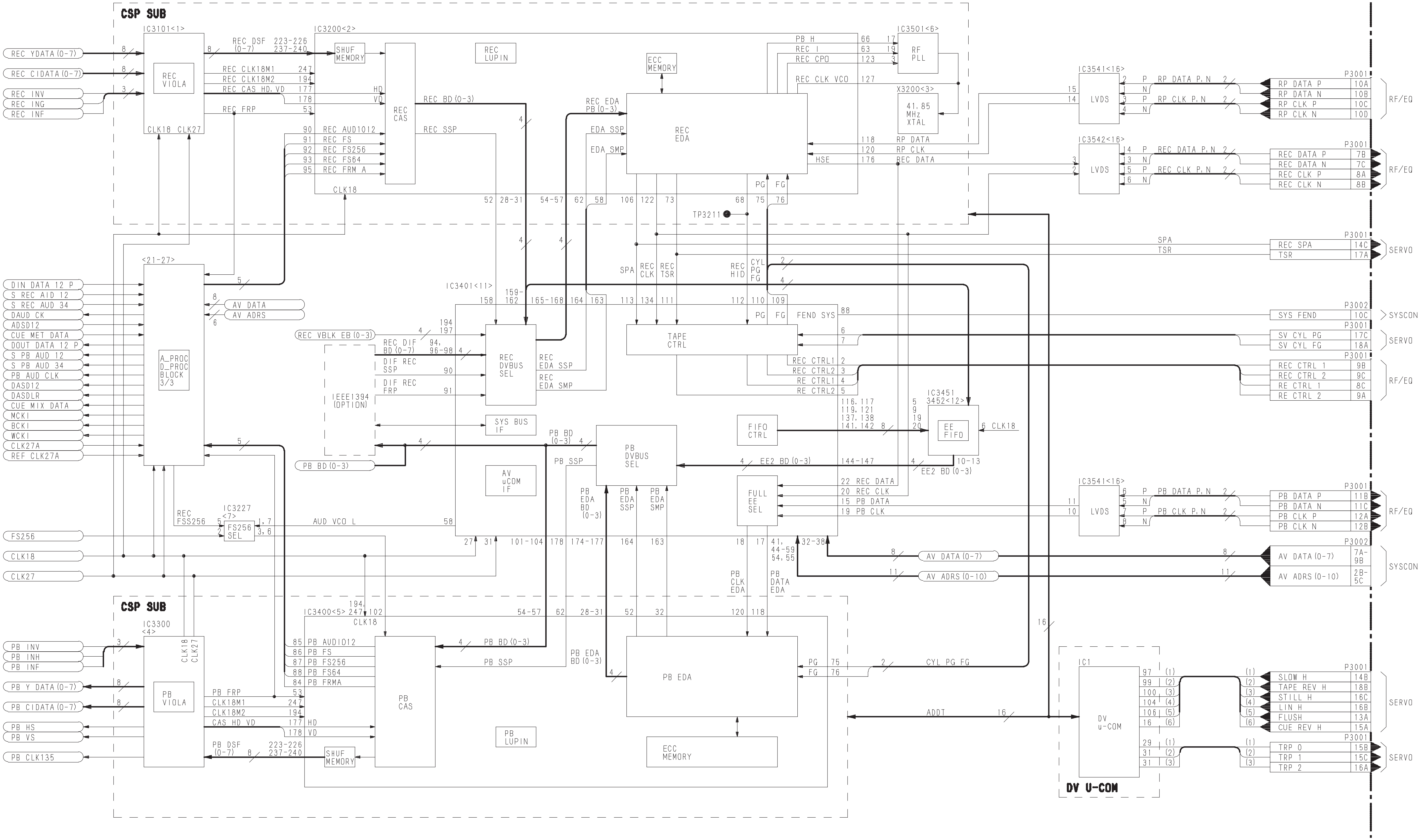


REAR
P3001
6B D IN DATA12
D IN DATA12 P
SDI
25B S REC AUD 12
26A S REC AUD 34
25B DAUDCK
S REC AUD 12
S REC AUD 34
DAUD CK
AD/DA
CUE
28B ADSD 12
29B CUE MET DATA
ADSD 12
CUE MET DATA
VIN
19B-21A
19B-21B
19C, 20C
REC YC 0-7
IC3301<8>
FIFO
W CLK
R CLK
WRSD
WE
RRST
RE
CLK27
IC3231<7>
24B INCOM CLK27
25A SINCOM CLK27
F3001
22B INCOM HD
22A INCOM FRM
VOUT
P3002
18A REF HD
17C REF FRM
21A PB FRM
IC3121<5>
BUF
VIN/SDI
22C A IN L
21A INCOM CF
17B REF CF
SERVO
IC3125<5>
13C FPS 0
14A FPS 1
FPS 0
FPS 1
REF CLK27A
17A REF CLK27
IC3303<8>
18B-21C PB YC DATA(0-7)
PB TBC DATA(0-7)
10C D OUT DATA12 P
D OUT DATA12 P
26C S PB AUD12
27A S PB AUD34
26B PB DAUDCK
S PB AUD 12
S PB AUD 34
PB AUD CLK
28C DASD12
29A DASDLR
29C CUE MIX DATA
DASD12
DASDLR
CUE MIX DATA
27B MCK1
27C BCK1
28A WCK1
MCK1
BCK1
WCK1
IC3331<9>
YC DEMUX
INT SG GEN
DELAY
TBC FILTER (411)
RCK, WCK
REC C2 DATA
FIL SINF
FIL SINH
IC3632<18>
BUF
INPUT FIFO CTRL
WRST
WE
RRST
RE
INCOM CLK27
REF SEL
BUF CTRL
CF SEL
FPS GEN
H/V/F GEN
REC INV VDAT
REC INH VDAT
REC FRP VDAT
PBVS VDAT
PBHS VDAT
DV IO (FPGA1)
REF CLK27
OUTPUT FIFO CTRL
WRST
SE
PRST
RE
VBLK MUX
YC MUX
VITC CC MUX
DELAY
PBHS
PBVS
CLK135
PB C2 DATA
FRP FLT
VBLK FLT
HD FLT
TBC FILTER (411)
RCK, WCK
REC YDATA(0-7)
REC CIDATA(0-7)
REC INV
REC INH
REC INF
PB INV
PB INH
PB INF
IC3511<15>
Y DATA0-7
VIDEO DATA (VITC, CC)
PB VDDT EN
CLK135
AV DATA(0-7)
AV ADRS(0-5)
VBLK (OPTION)
REC VBLK BD(0-3)
PB BD(0-3)
X3190(6)
27H VCO
IC3190<6>
CLK27 A
22M PLL
18M PLL
V ERR
H ERR
H ERR
H/V
H
IC3222<7>
PLL VCO (27M) (18M) (FS256)
FS256
IC3228, 3229<7>
BUF
CLK18
IC3230<7>
BUF
CLK27
PB DATA DATA (0-7)
PB YDATA(0-7)
PB CIDATA(0-7)
PB HS
PB VS
PB CLK135

F4:D PROCESS BLOCK DIAGRAM (2/3)

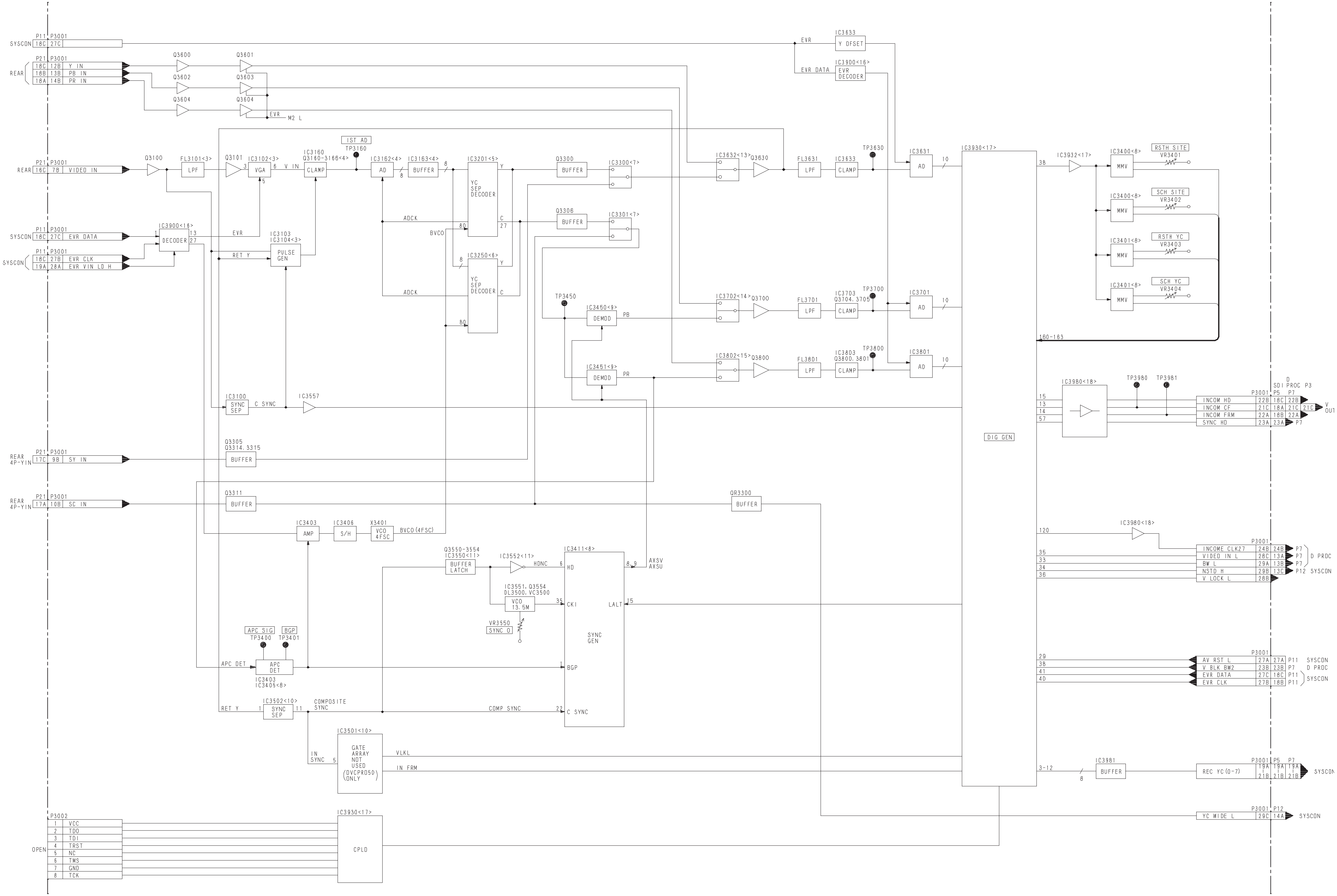

IC4300<23>1/2
IC4501<25>
IC4300<23>2/2
IC3172<6>
D IN DATA12 P
BUF
AESIN
DI SEL
DEC
DELAY PHASE SHIFT
DEGITAL IN
REC VOLUME
REC SEL
A CNT
CUE MIX REC
I CUE MIX DATA
IC3171<6>
CUE MIX DATA
SI SEL
S REC AUD12
S REC AUD34
DAUD CLK
INT SG
ADSD12
ANALOG IN
METER
REC EE OUT
PCMCNT
IC4700<27>
MEM IN
A MEM
MEM OUT
FS128
IRCK
FS256
REC FR, A
REC FS64
REC FS
REC AUD12
TO D_PROC BLOCK 2/3 IC3200 (REC CAS)
D_PROC FROM 2/3 IC3400 (PB CAS)
PB FRMA
PB FS64
PB FS256
PB FS
PB AUDIO12
REC EE IN DATA
REC EE SEL
REC DELAY
REC OUT
PB EE IN DATB
IC4601<26>
SRC (RATE CONV)
XTAL (16MHz)
X4600<26> 1/2
IC4602<26>
IC4600<26>
IC4601
X4600<26> 2/2
IC4402<24>
JOG IN
JOG OUT
JOG CS
SLOW CTRL
VFADE 1NA
VFADE 2NA
PHASE SHIFT
PB DELAY
PB VOLUME
PB OUT SEL
MUTE
PB OUT
PCM OUT
FADE CH1
FADE CH2
FADE
PBOUT DATA
DASD12
DASDLR
CUE MET DATA
I CUE MET DATA
MONI SEL
MONI OUT
MONI DATA
CLK18
CLK27
AV SYS IF
DELAY
ENC
SOUT 12 D
SOUT 34 D
AES D
S PB AUD12
S PB AUD34
D OUT DATA12 P
PBSDICLK
PB DAUDCK
SYNC GEN
FS256M
FS256V
FS256
AV DATA (0-7)
AV ADRS (0-10)
IC4500<25>
SRAM
MCK1
BCK1
WCK1
IC4201 <22>
IC4202 <22>
CLK27A
PLL
IC4200 <22>
REF CLK27A
TO D_PROC BLOCK 2/3 IC3200 (REC CAS) IC3227 (FS256 SEL)

F4:D PROCESS BLOCK DIAGRAM PB BLOCK DIAGRAM(3/3)

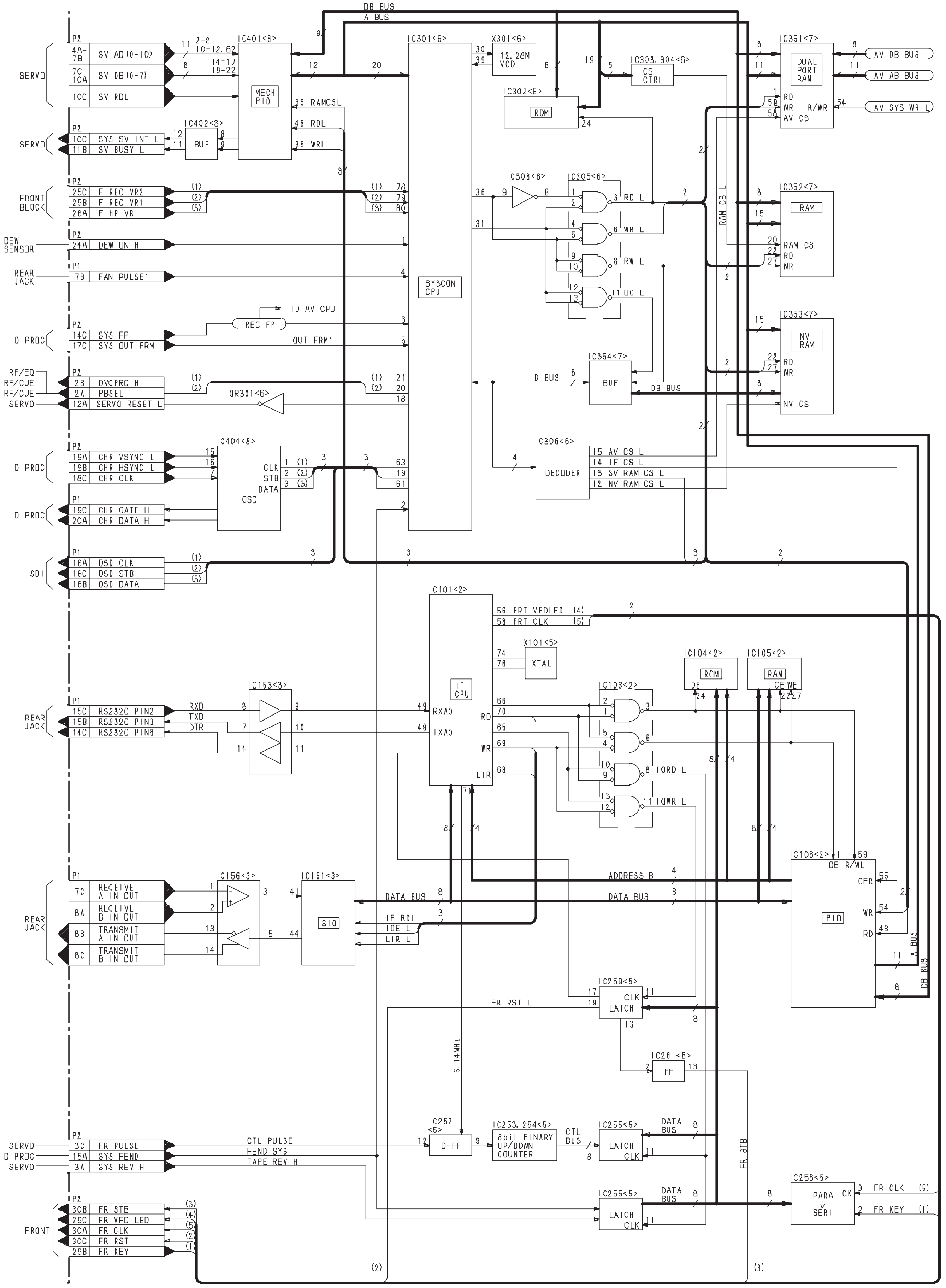


CSP SUB
IC3101<1>
REC VIOLA
CLK18 CLK27
REC YDATA(0-7)
REC CIDATA(0-7)
REC INV
REC ING
REC INF
IC3200<2>
REC DSF (0-7) 223-226 237-240
REC CLK18M1
REC CLK18M2
REC CAS HD,VD
REC FRP
SHUF MEMORY
REC CAS
REC LUPIN
ECC MEMORY
REC EDA
REC BD(0-3)
REC SSP
REC AUD1012
REC FS
REC FS256
REC FS64
REC FRM A
CLK18
REC EDA PB(0-3)
EDA SSP
EDA SMP
HSE
PB H
REC I
REC CPO
REC CLK VCO
IC3501<6>
RF PLL
X3200<3>
41.85 MHz XTAL
RP DATA
RP CLK
REC DATA
TP3211
IC3541<16>
LVDS
RP DATA P,N
RP CLK P,N
P3001
RP DATA P
RP DATA N
RP CLK P
RP CLK N
RF/EQ
IC3542<16>
REC DATA P,N
REC CLK P,N
REC DATA P
REC DATA N
REC CLK P
REC CLK N
SPA
TSR
REC SPA
SERVO
<21-27>
A_PROC D_PROC BLOCK 3/3
DIN DATA 12 P
S REC AID 12
S REC AUD 34
DAUD CK
ADSD12
CUE MET DATA
DOUT DATA 12 P
S PB AUD 12
S PB AUD 34
PB AUD CLK
DASD12
DASDLR
CUE MIX DATA
MCKI
BCKI
WCKI
CLK27A
REF CLK27A
AV DATA
AV ADRS
IC3401<11>
REC VBLK EB(0-3)
REC DIF BD(0-7)
DIF REC SSP
DIF REC FRP
REC DVBUS SEL
REC EDA SSP
REC EDA SMP
IEEE1394 (OPTION)
SYS BUS IF
AV uCOM IF
TAPE CTRL
FEND SYS
REC CLK
REC TSR
REC HID
CYL PG FG
SYSCON
SYS FEND
SV CYL PG
SV CYL FG
REC CTRL1
REC CTRL2
RE CTRL1
RE CTRL2
REC CTRL 1
REC CTRL 2
RE CTRL 1
RE CTRL 2
FIFO CTRL
IC3451 3452<12>
EE FIFO
CLK18
PB BD(0-3)
PB SSP
PB DVBUS SEL
EE2 BD(0-3)
FULL EE SEL
22 REC DATA
20 REC CLK
15 PB DATA
19 PB CLK
PB EDA BD (0-3)
PB EDA SSP
PB EDA SMP
PB CLK EDA
PB DATA EDA
PB DATA P,N
PB CLK P,N
PB DATA P
PB DATA N
PB CLK P
PB CLK N
AV DATA(0-7)
AV ADRS(0-10)
REC FSS256
IC3227 <7>
FS256 SEL
AUD VCO L
FS256
CLK18
CLK27
IC3300 <4>
PB VIOLA
PB INV
PB INH
PB INF
PB Y DATA(0-7)
PB CIDATA(0-7)
PB HS
PB VS
PB CLK135
PB FRP
CLK18M1
CLK18M2
CAS HD VD
PB DSF (0-7) 223-226 237-240
IC3400<5>
PB AUDIO12
PB FS
PB FS256
PB FS64
PB FRMA
PB CAS
PB LUPIN
PB EDA
ECC MEMORY
CYL PG FG
ADDT
IC1
DV u-COM
DV U-COM
SLOW H
TAPE REV H
STILL H
LIN H
FLUSH
CUE REV H
TRP 0
TRP 1
TRP 2

F5:VIDEO IN BLOCK DIAGRAM

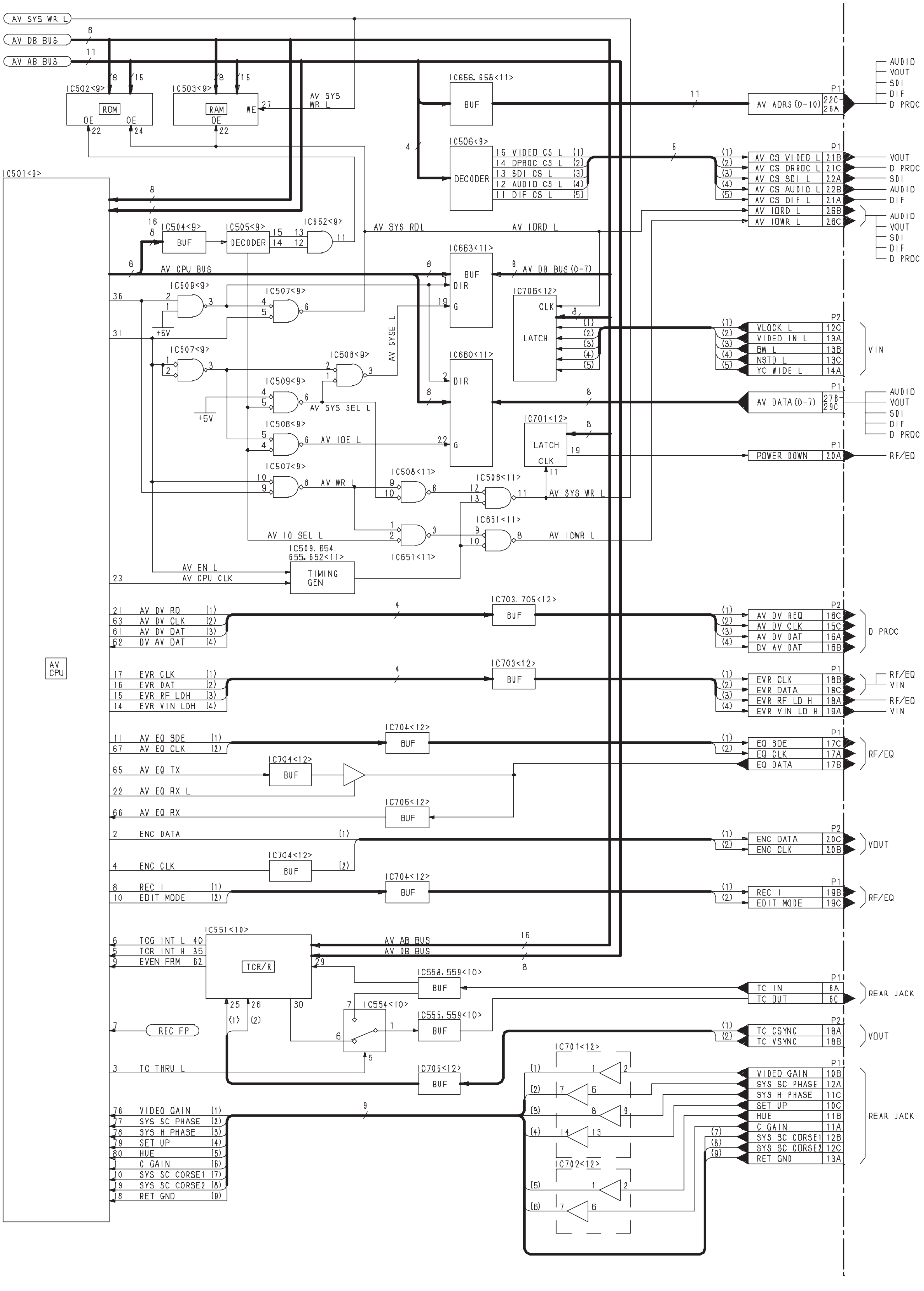

SYSCON
P11 P3001
18C 27C
REAR
P21 P3001
18C 12B Y IN
18B 13B PB IN
18A 14B PR IN
Q3600
Q3601
Q3602
Q3603
Q3604
Q3604
EVR
M2 L
IC3633
EVR
Y OFSET
IC3900<16>
EVR DATA
EVR DECODER
IST AD
TP3160
REAR
P21 P3001
16C 7B VIDEO IN
Q3100
FL3101<3>
LPF
Q3101
IC3102<3>
VGA
6 V IN
5
IC3160
Q3160-3166<4>
CLAMP
IC3162<4>
AD
8
IC3163<4>
BUFFER
8
IC3201<5>
YC SEP DECODER
Y
C
27
80
Q3300
BUFFER
IC3300<7>
Q3306
BUFFER
IC3301<7>
ADCK
BVCO
IC3250<6>
YC SEP DECODER
Y
C
ADCK
80
IC3632<13>
Q3630
FL3631
LPF
IC3633
CLAMP
TP3630
IC3631
AD
10
IC3930<17>
38
IC3932<17>
IC3400<8>
MMV
RSTH SITE
VR3401
IC3400<8>
MMV
SCH SITE
VR3402
IC3401<8>
MMV
RSTH YC
VR3403
IC3401<8>
MMV
SCH YC
VR3404
160-163
SYSCON
P11 P3001
18C 27C EVR DATA
IC3900<16>
1 DECODER 13 27
EVR
RET Y
IC3103
IC3104<3>
PULSE GEN
SYSCON
P11 P3001
18C 27B EVR CLK
19A 28A EVR VIN LD H
TP3450
IC3450<9>
DEMOD
PB
IC3702<14>
Q3700
FL3701
LPF
IC3703
Q3704, 3705
CLAMP
TP3700
IC3701
AD
10
IC3451<9>
DEMOD
PR
IC3802<15>
Q3800
FL3801
LPF
IC3803
Q3800, 3801
CLAMP
TP3800
IC3801
AD
10
IC3100
SYNC SEP
C SYNC
IC3557
IC3980<18>
TP3980
TP3981
15
13
14
57
P3001 P5 P7
D SDI PROC P3
INCOM HD 22B 18C 22B
INCOM CF 21C 18A 21C 21C
INCOM FRM 22A 18B 22A
SYNC HD 23A 23A P7
V OUT
DIG GEN
REAR 4P-YIN
P21 P3001
17C 9B SY IN
Q3305
Q3314, 3315
BUFFER
REAR 4P-YIN
P21 P3001
17A 10B SC IN
Q3311
BUFFER
QR3300
BUFFER
IC3403
AMP
IC3406
S/H
X3401
VCO 4FSC
BVCO (4FSC)
120
IC3980<18>
P3001
INCOME CLK27 24B 24B P7
VIDEO IN L 28C 13A P7
BW L 29A 13B P7
NSTD H 29B 13C P12 SYSCON
V LOCK L 28B
D PROC
35
33
34
36
Q3550-3554
IC3550<11>
BUFFER LATCH
IC3552<11>
HDNC
6
IC3411<8>
HD
8, 9
AXSV
AXSU
IC3551, Q3554
DL3500, VC3500
VCO 13.5M
35
CKI
LALT
15
VR3550
SYNC O
SYNC GEN
APC SIG
TP3400
BGP
TP3401
APC DET
APC DET
IC3403
IC3405<8>
1
BGP
29
38
41
40
P3001
AV RST L 27A 27A P11 SYSCON
V BLK BW2 23B 23B P7 D PROC
EVR DATA 27C 18C P11
EVR CLK 27B 18B P11 SYSCON
RET Y
1
IC3502<10>
SYNC SEP
11
COMPOSITE SYNC
COMP SYNC
22
C SYNC
IC3501<10>
IN SYNC 5
GATE ARRAY NOT USED (DVCPRO50 ONLY)
VLKL
IN FRM
3-12
8
IC3981
BUFFER
P3001 P5 P7
REC YC(0-7) 19A ~ 21B 19A ~ 21B 19A ~ 21B
SYSCON
P3001 P12
YC WIDE L 29C 14A
SYSCON
P3002
1 VCC
2 TDO
3 TDI
4 TRST
5 NC
6 TMS
7 GND
8 TCK
OPEN
IC3930<17>
CPLD

F6:SYSCON BLOCK DIAGRAM (1/2)

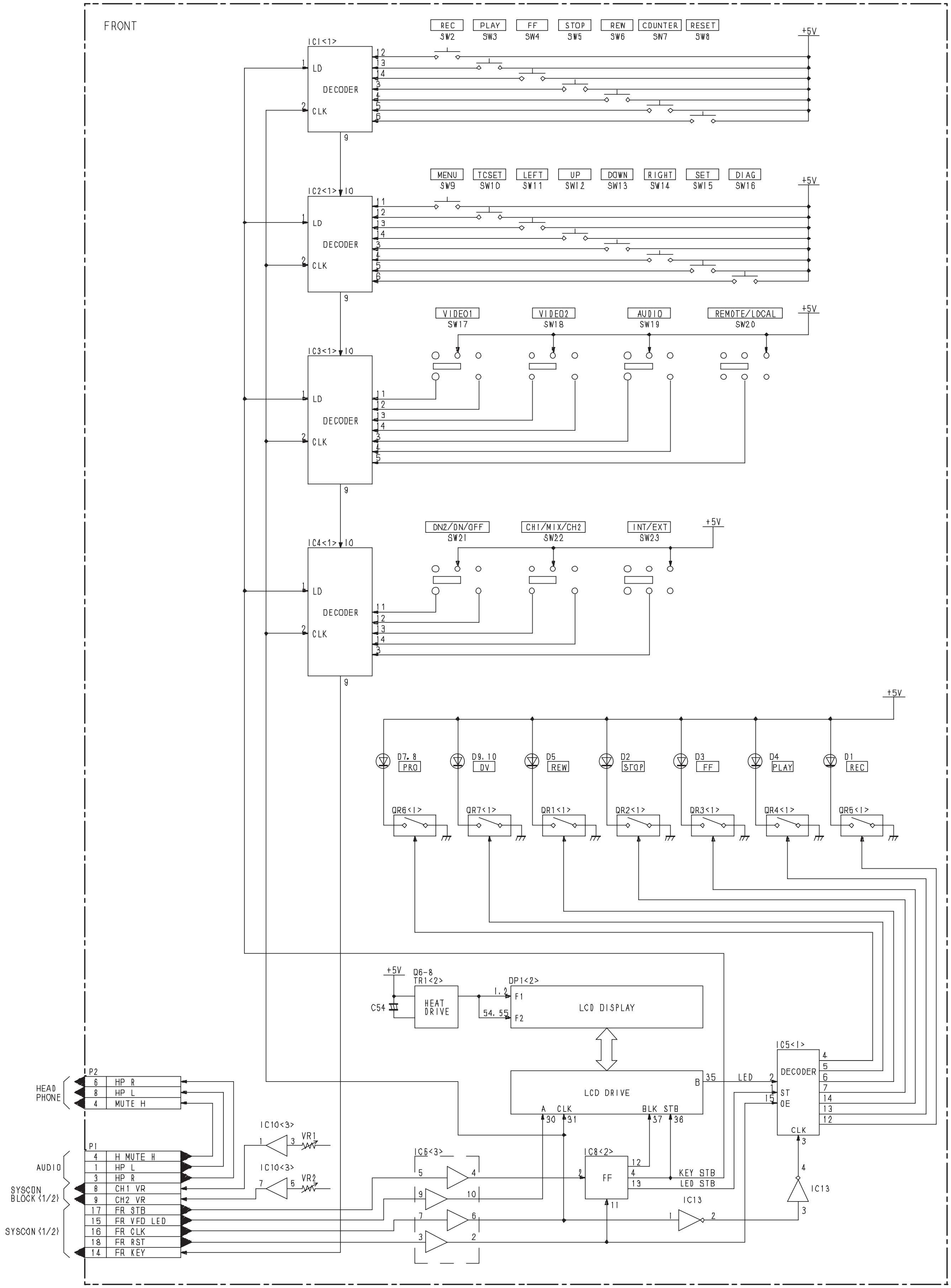


DB BUS
A BUS
SERVO
P2
4A-7B SV AD(0-10)
7C-10A SV DB(0-7)
10C SV RDL
IC401<8>
MECH PIO
35 RAMCSL
48 RDL
35 WRL
IC402<8>
BUF
10C SYS SV INT L
11B SV BUSY L
FRONT BLOCK
25C F REC VR2
25B F REC VR1
26A F HP VR
DEW SENSOR
24A DEW ON H
REAR JACK
P1
7B FAN PULSE1
D PROC
14C SYS FP
17C SYS OUT FRM
REC FP
TO AV CPU
OUT FRM1
RF/EQ
RF/CUE
RF/CUE
SERVO
2B DVCPRO H
2A PBSEL
12A SERVO RESET L
QR301<6>
19A CHR VSYNC L
19B CHR HSYNC L
18C CHR CLK
IC404<8>
CLK
STB
DATA
OSD
19C CHR GATE H
20A CHR DATA H
SDI
16A OSD CLK
16C OSD STB
16B OSD DATA
IC301<6>
SYSCON CPU
X301<6>
12.28M VCO
IC302<6>
ROM
IC303, 304<6>
CS CTRL
IC308<6>
IC305<6>
RD L
WR L
RW L
OC L
IC354<7>
BUF
D BUS
DB BUS
IC306<6>
DECODER
15 AV CS L
14 IF CS L
13 SV RAM CS L
12 NV RAM CS L
IC351<7>
DUAL PORT RAM
RD
WR
AV CS
R/WR
AV DB BUS
AV AB BUS
AV SYS WR L
RAM CS L
IC352<7>
RAM
RAM CS
IC353<7>
NV RAM
NV CS
IC101<2>
IF CPU
56 FRT VFDLED (4)
58 FRT CLK (5)
X101<5>
XTAL
RXA0
TXA0
RD
WR
LIR
IC104<2>
ROM
OE
IC105<2>
RAM
OE WE
IC103<2>
IORD L
IOWR L
IC153<3>
15C RS232C PIN2
15B RS232C PIN3
14C RS232C PIN8
RXD
TXD
DTR
IC106<2>
PIO
OE R/WL
CER
WR
RD
ADDRESS B
DATA BUS
A BUS
DB BUS
IC156<3>
IC151<3>
SIO
IF RDL
IOE L
LIR L
7C RECEIVE A IN OUT
8A RECEIVE B IN OUT
8B TRANSMIT A IN OUT
8C TRANSMIT B IN OUT
IC259<5>
CLK
LATCH
FR RST L
IC261<5>
FF
6.14MHz
IC252 <5>
D-FF
IC253, 254<5>
8bit BINARY UP/DOWN COUNTER
CTL BUS
IC255<5>
LATCH
CLK
DATA BUS
FR STB
IC256<5>
PARA SERI
CK
FR CLK (5)
FR KEY (1)
3C FR PULSE
15A SYS FEND
3A SYS REV H
CTL PULSE
FEND SYS
TAPE REV H
FRONT
30B FR STB
29C FR VFD LED
30A FR CLK
30C FR RST
29B FR KEY

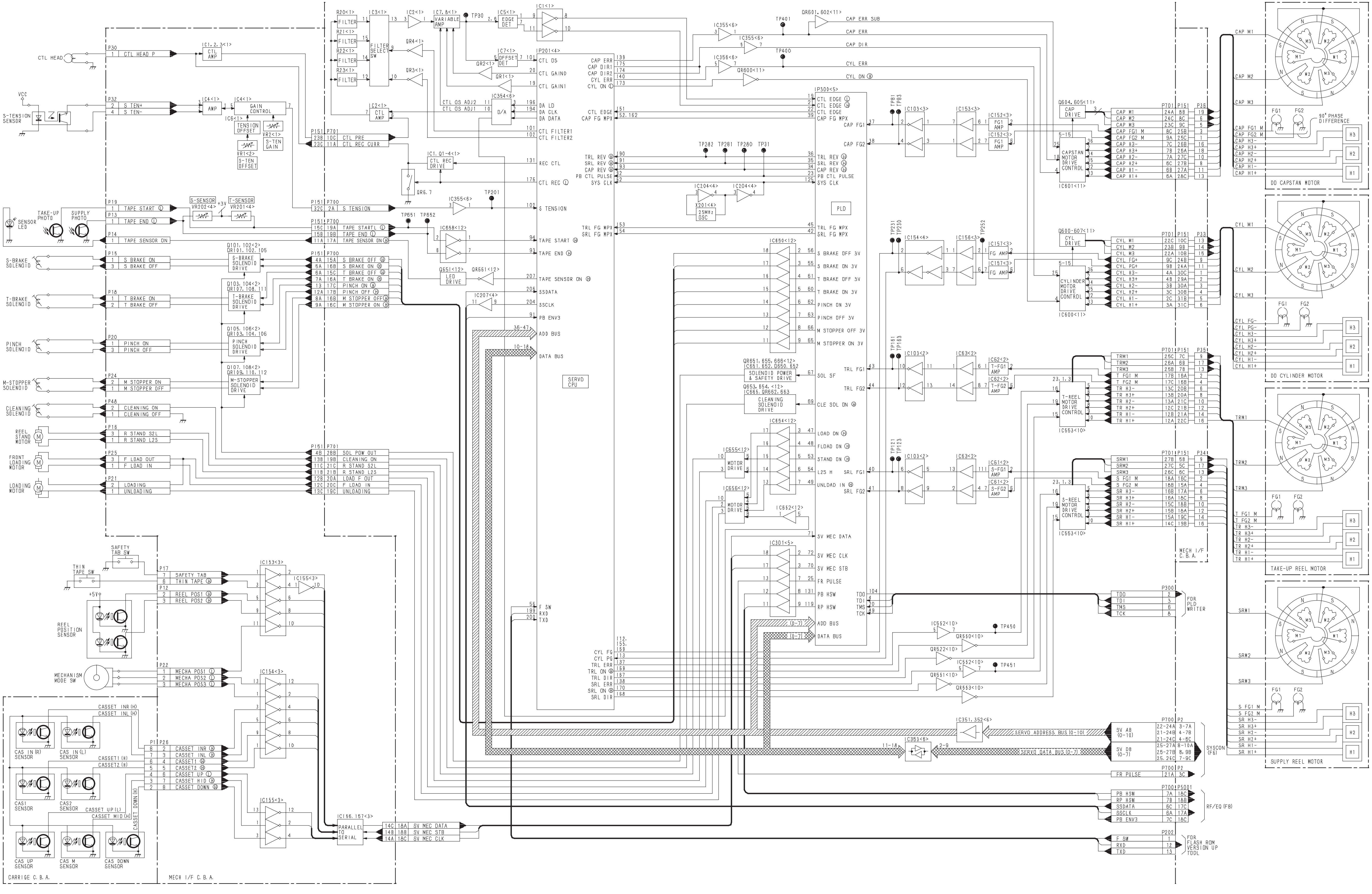
F6:SYSCON BLOCK DIAGRAM (2/2)


AV SYS WR L
AV DB BUS
AV AB BUS
IC502<9>
ROM
OE
OE
IC503<9>
RAM
OE
WE
AV SYS WR L
IC656, 658<11>
BUF
AV ADRS (D-10)
IC506<9>
DECODER
15 VIDEO CS L (1)
14 DPROC CS L (2)
13 SDI CS L (3)
12 AUDIO CS L (4)
11 DIF CS L (5)
AV CS VIDEO L 21B
AV CS DPROC L 21C
AV CS SDI L 22A
AV CS AUDIO L 22B
AV CS DIF L 21A
AV IORD L 26B
AV IOWR L 26C
AUDIO
VOUT
SDI
DIF
D PROC
IC501<9>
IC504<9>
BUF
IC505<9>
DECODER
IC652<9>
AV SYS RDL
AV IORD L
AV CPU BUS
IC653<11>
BUF
DIR
G
AV DB BUS (D-7)
IC706<12>
CLK
LATCH
VLOCK L 12C
VIDEO IN L 13A
BW L 13B
NSTD L 13C
YC WIDE L 14A
VIN
IC508<9>
IC507<9>
+5V
AV SYSE L
IC660<11>
DIR
G
IC509<9>
AV SYS SEL L
AV DATA (D-7) 27B 29C
IC701<12>
LATCH
CLK
AV IOE L
POWER DOWN 20A
RF/EQ
AV WR L
IC508<11>
AV SYS WR L
IC651<11>
AV IOWR L
AV IO SEL L
IC509, 654, 655, 652<11>
TIMING GEN
AV EN L
AV CPU CLK
AV CPU
21 AV DV RQ (1)
63 AV DV CLK (2)
61 AV DV DAT (3)
62 DV AV DAT (4)
IC703, 705<12>
BUF
AV DV REQ 16C
AV DV CLK 15C
AV DV DAT 16A
DV AV DAT 16B
D PROC
17 EVR CLK (1)
16 EVR DAT (2)
15 EVR RF LDH (3)
14 EVR VIN LDH (4)
IC703<12>
BUF
EVR CLK 18B
EVR DATA 18C
EVR RF LD H 18A
EVR VIN LD H 19A
RF/EQ
VIN
11 AV EQ SDE (1)
67 AV EQ CLK (2)
IC704<12>
BUF
EQ SDE 17C
EQ CLK 17A
EQ DATA 17B
65 AV EQ TX
22 AV EQ RX L
66 AV EQ RX
IC705<12>
2 ENC DATA
4 ENC CLK
ENC DATA 20C
ENC CLK 20B
VOUT
8 REC I (1)
10 EDIT MODE (2)
REC I 19B
EDIT MODE 19C
IC551<10>
TCR/R
6 TCG INT L 40
5 TCR INT H 35
9 EVEN FRM 62
AV AB BUS
AV DB BUS
IC558, 559<10>
BUF
TC IN 6A
TC OUT 6C
REAR JACK
IC554<10>
IC555, 559<10>
TC CSYNC 18A
TC VSYNC 18B
7 REC FP
3 TC THRU L
IC705<12>
IC701<12>
IC702<12>
78 VIDEO GAIN (1)
77 SYS SC PHASE (2)
76 SYS H PHASE (3)
79 SET UP (4)
80 HUE (5)
1 C GAIN (6)
10 SYS SC CORSE1 (7)
19 SYS SC CORSE2 (8)
18 RET GND (9)
VIDEO GAIN 10B
SYS SC PHASE 12A
SYS H PHASE 11C
SET UP 10C
HUE 11B
C GAIN 11A
SYS SC CORSE1 12B
SYS SC CORSE2 12C
RET GND 13A
REAR JACK
P1
P2

FRONT BLOCK DIAGRAM

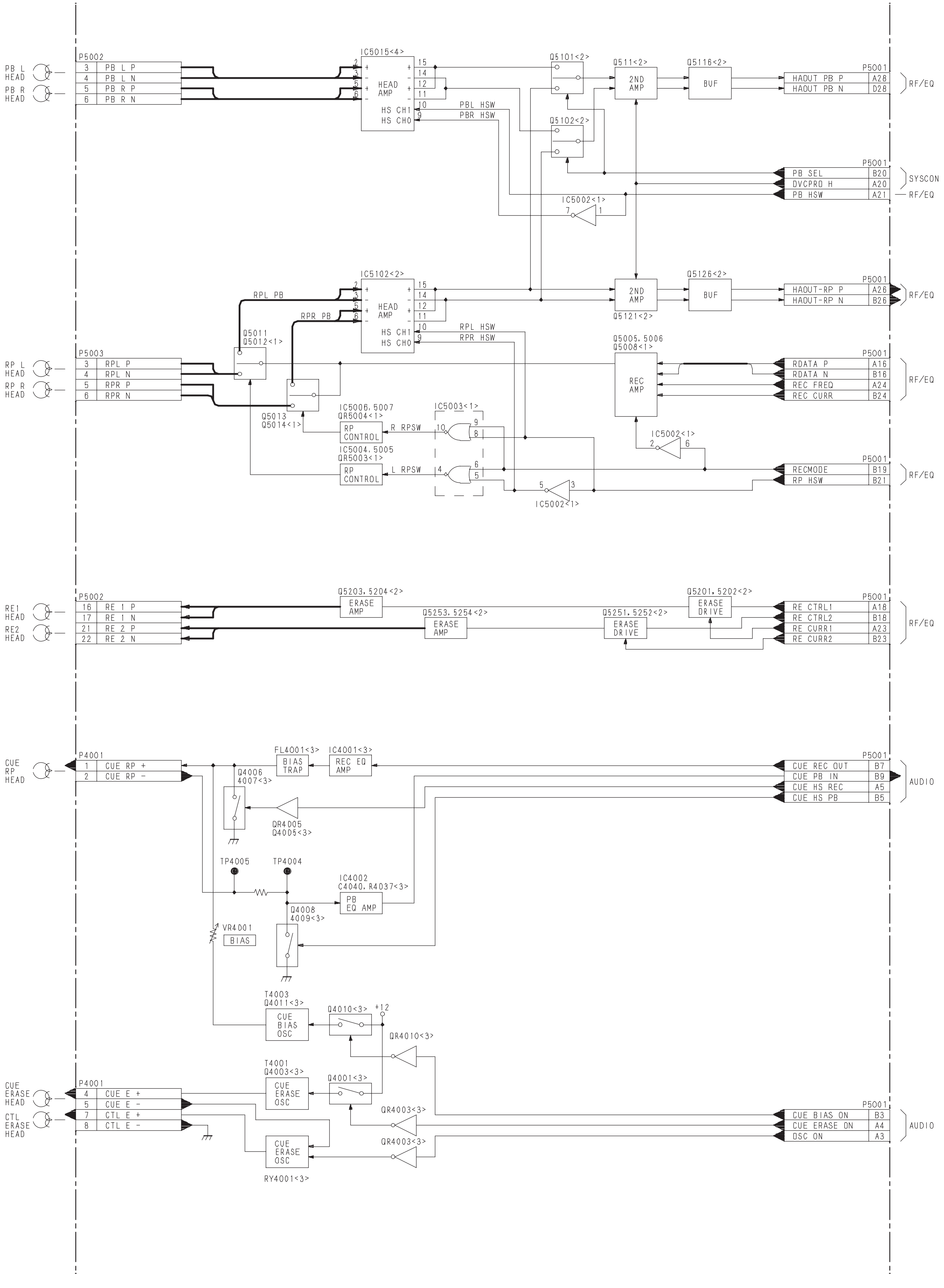

FRONT
REC SW2
PLAY SW3
FF SW4
STOP SW5
REW SW6
COUNTER SW7
RESET SW8
+5V
IC1<1>
LD
DECODER
CLK
MENU SW9
TCSET SW10
LEFT SW11
UP SW12
DOWN SW13
RIGHT SW14
SET SW15
DIAG SW16
IC2<1>
VIDEO1 SW17
VIDEO2 SW18
AUDIO SW19
REMOTE/LOCAL SW20
IC3<1>
DN2/DN/OFF SW21
CH1/MIX/CH2 SW22
INT/EXT SW23
IC4<1>
D7, 8 PRO
D9, 10 DV
D5 REW
D2 STOP
D3 FF
D4 PLAY
D1 REC
QR6<1>
QR7<1>
QR1<1>
QR2<1>
QR3<1>
QR4<1>
QR5<1>
Q6-8 TR1<2>
HEAT DRIVE
C54
DP1<2>
1, 2 F1
54, 55 F2
LCD DISPLAY
LCD DRIVE
A CLK BLK STB
30 31 37 36
B 35
LED
IC5<1>
DECODER
ST
OE
CLK
IC6<3>
IC8<2>
FF
KEY STB
LED STB
IC13
IC10<3>
VR1
VR2
P2
HEAD PHONE
6 HP R
8 HP L
4 MUTE H
P1
AUDIO
4 H MUTE H
1 HP L
3 HP R
SYSCON BLOCK (1/2)
8 CH1 VR
9 CH2 VR
SYSCON (1/2)
17 FR STB
15 FR VFD LED
16 FR CLK
18 FR RST
14 FR KEY

F7:SERVO BLOCK DIAGRAM



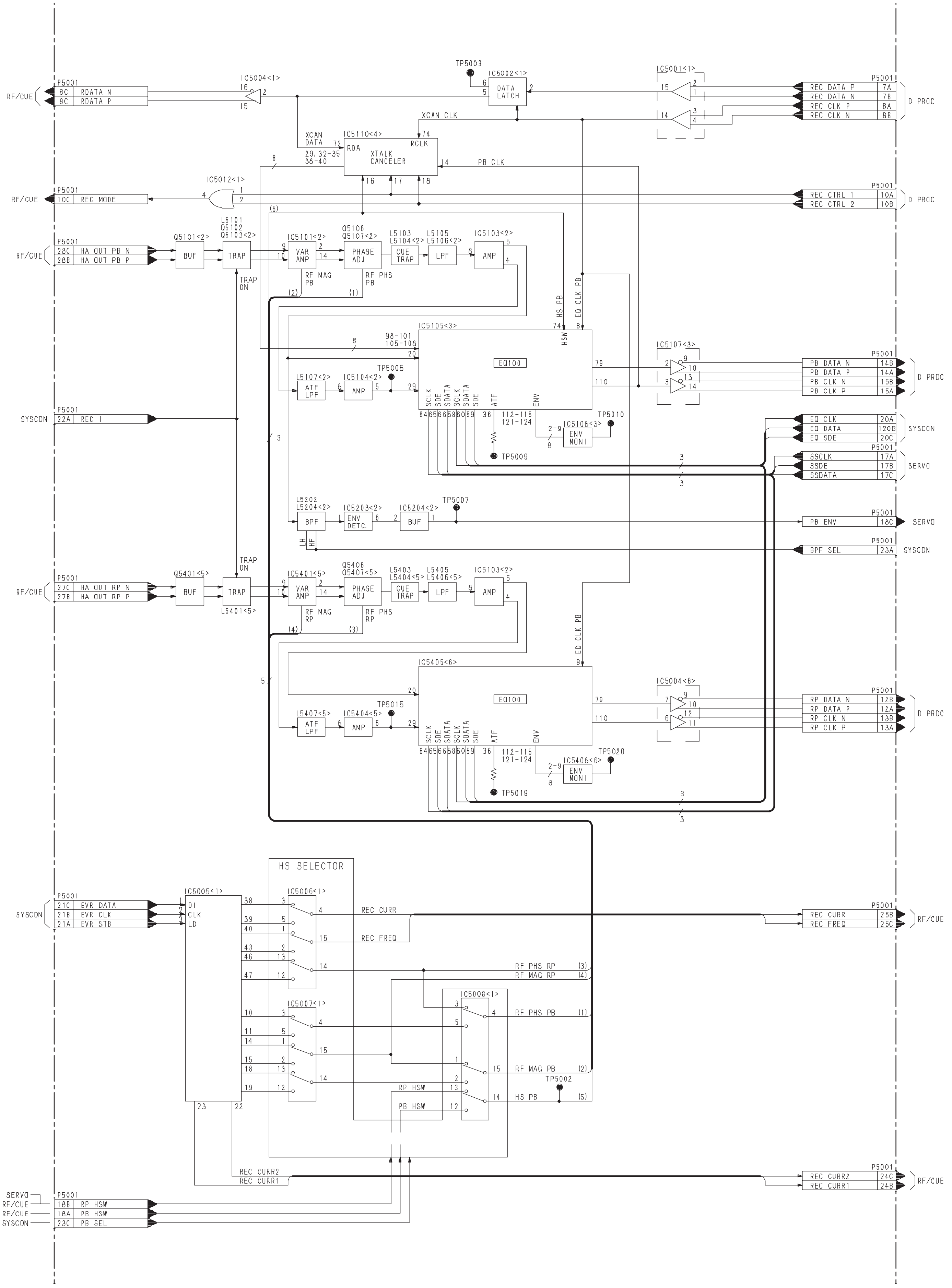
CTL HEAD
S-TENSION SENSOR
SENSOR LED
TAKE-UP PHOTO
SUPPLY PHOTO
S-BRAKE SOLENOID
T-BRAKE SOLENOID
PINCH SOLENOID
M-STOPPER SOLENOID
CLEANING SOLENOID
REEL STAND MOTOR
FRONT LOADING MOTOR
LOADING MOTOR
SAFETY TAB SW
THIN TAPE SW
REEL POSITION SENSOR
MECHANISM MODE SW
CAS IN (R) SENSOR
CAS IN (L) SENSOR
CAS1 SENSOR
CAS2 SENSOR
CAS UP SENSOR
CAS M SENSOR
CAS DOWN SENSOR
CARRIGE C.B.A.
MECH I/F C.B.A.
CTL AMP
AMP
GAIN CONTROL
TENSION OFFSET
S-TEN GAIN
S-TEN OFFSET
FILTER
FILTER SELECT SW
VARIABLE AMP
EDGE DET
OFFSET DET
D/A
CTL REC DRIVE
S-BRAKE SOLENOID DRIVE
T-BRAKE SOLENOID DRIVE
PINCH SOLENOID DRIVE
M-STOPPER SOLENOID DRIVE
LED DRIVE
PARALLEL TO SERIAL
SERVO CPU
IP201<4>
PLD
IP300<5>
25MHz OSC
SOLENOID POWER & SAFETY DRIVE
CLEANING SOLENOID DRIVE
MOTOR DRIVE
CAP DRIVE
CAPSTAN MOTOR DRIVE CONTROL
CYL DRIVE
CYLINDER MOTOR DRIVE CONTROL
T-REEL MOTOR DRIVE CONTROL
S-REEL MOTOR DRIVE CONTROL
FG1 AMP
FG AMP
T-FG1 AMP
T-FG2 AMP
S-FG1 AMP
S-FG2 AMP
DD CAPSTAN MOTOR
DD CYLINDER MOTOR
TAKE-UP REEL MOTOR
SUPPLY REEL MOTOR
90° PHASE DIFFERENCE
FOR PLD WRITER
SYSCON (F6)
RF/EQ (F8)
FOR FLASH ROM VERSION UP TOOL
SERVO ADDRESS BUS [0-10]
SERVO DATA BUS [0-7]
ADD BUS
DATA BUS
MECH I/F C.B.A.

RF CUE BLOCK DIAGRAM



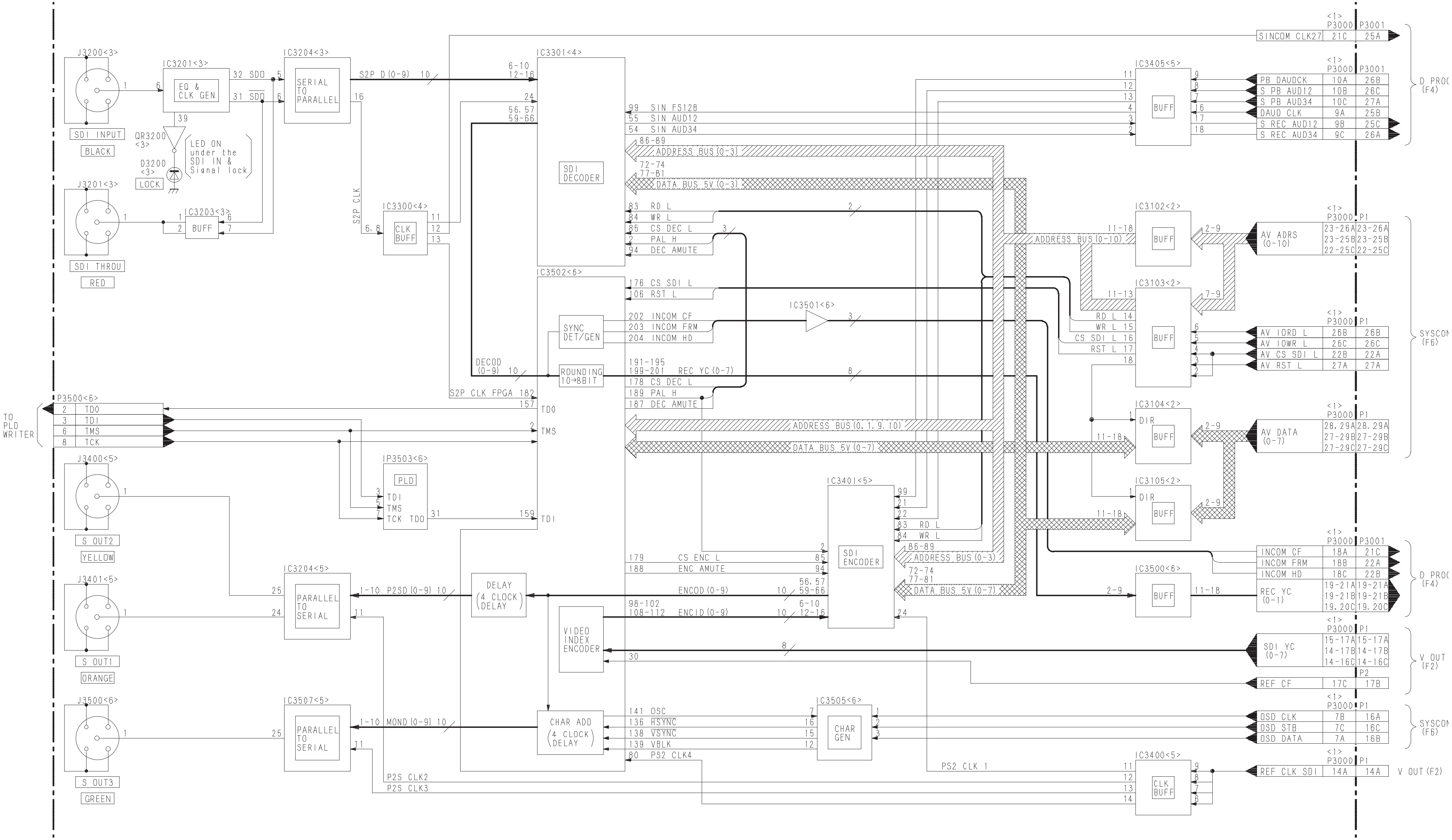
PB L HEAD
PB R HEAD
P5002
3 PB L P
4 PB L N
5 PB R P
6 PB R N
IC5015<4>
HEAD AMP
HS CH1
HS CH0
PBL HSW
PBR HSW
Q5101<2>
Q5102<2>
Q511<2>
2ND AMP
Q5116<2>
BUF
P5001
HAOUT PB P A28
HAOUT PB N D28
RF/EQ
PB SEL B20
DVCPRO H A20
PB HSW A21
SYSCON
RF/EQ
IC5002<1>
IC5102<2>
RPL PB
RPR PB
HEAD AMP
HS CH1
HS CH0
RPL HSW
RPR HSW
2ND AMP
Q5121<2>
Q5126<2>
BUF
HAOUT-RP P A26
HAOUT-RP N B26
RF/EQ
Q5011
Q5012<1>
P5003
RP L HEAD
RP R HEAD
3 RPL P
4 RPL N
5 RPR P
6 RPR N
Q5013
Q5014<1>
Q5005, 5006
Q5008<1>
REC AMP
RDATA P A16
RDATA N B16
REC FREQ A24
REC CURR B24
RF/EQ
IC5006, 5007
QR5004<1>
RP CONTROL
R RPSW
IC5004, 5005
QR5003<1>
RP CONTROL
L RPSW
IC5003<1>
IC5002<1>
IC5002<1>
RECMODE B19
RP HSW B21
RF/EQ
RE1 HEAD
RE2 HEAD
P5002
16 RE 1 P
17 RE 1 N
21 RE 2 P
22 RE 2 N
Q5203, 5204<2>
ERASE AMP
Q5253, 5254<2>
ERASE AMP
Q5251, 5252<2>
ERASE DRIVE
Q5201, 5202<2>
ERASE DRIVE
RE CTRL1 A18
RE CTRL2 B18
RE CURR1 A23
RE CURR2 B23
RF/EQ
CUE RP HEAD
P4001
1 CUE RP +
2 CUE RP −
FL4001<3>
BIAS TRAP
IC4001<3>
REC EQ AMP
Q4006
4007<3>
QR4005
Q4005<3>
CUE REC OUT B7
CUE PB IN B9
CUE HS REC A5
CUE HS PB B5
AUDIO
TP4005
TP4004
IC4002
C4040, R4037<3>
PB EQ AMP
Q4008
4009<3>
VR4001
BIAS
T4003
Q4011<3>
CUE BIAS OSC
Q4010<3>
+12
QR4010<3>
T4001
Q4003<3>
CUE ERASE OSC
Q4001<3>
QR4003<3>
CUE ERASE HEAD
CTL ERASE HEAD
P4001
4 CUE E +
5 CUE E −
7 CTL E +
8 CTL E −
CUE ERASE OSC
QR4003<3>
RY4001<3>
CUE BIAS ON B3
CUE ERASE ON A4
OSC ON A3
AUDIO

F8:RF/EQ BLOCK DIAGRAM



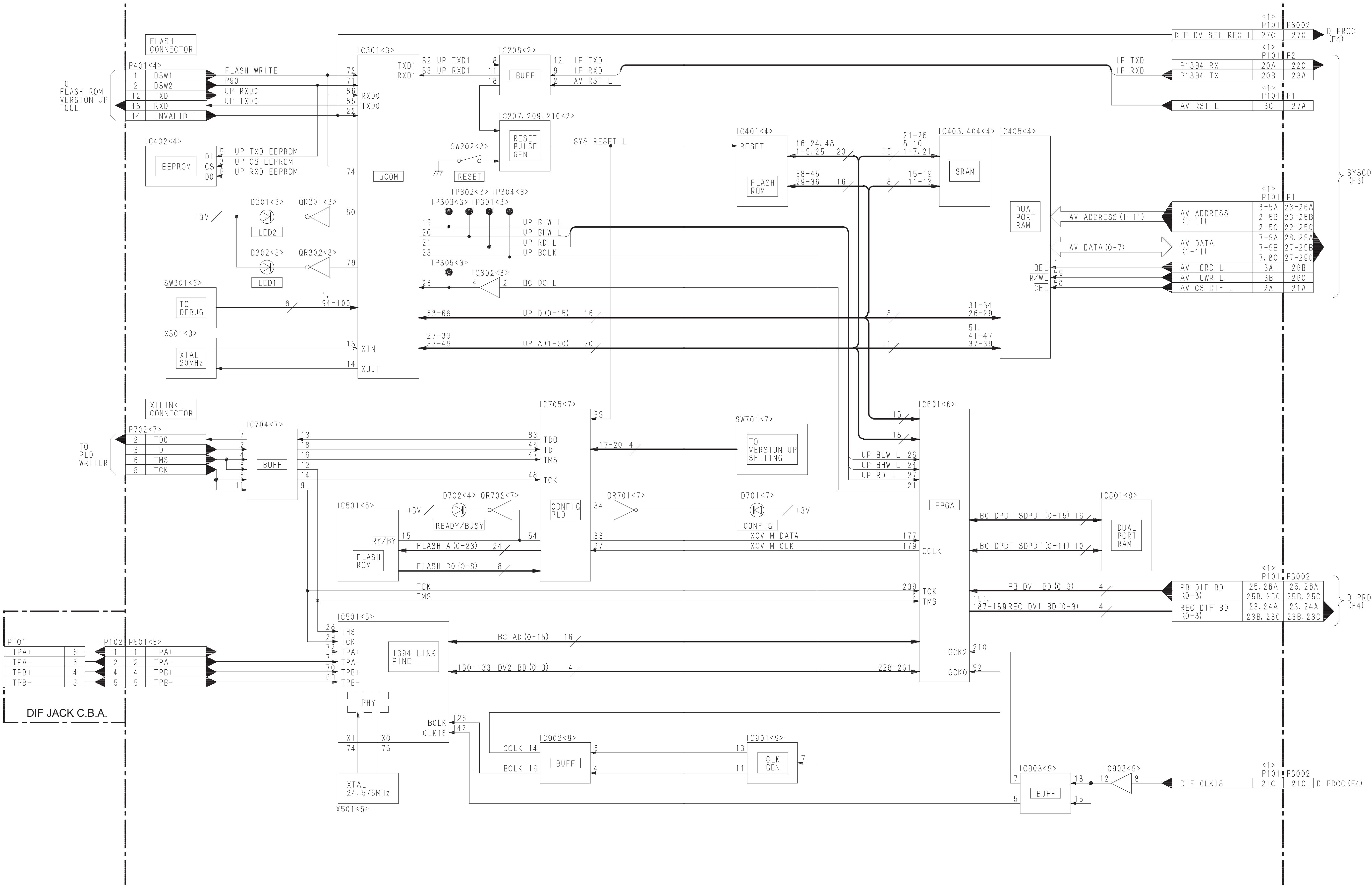
RF/CUE
P5001
8C RDATA N
8C RDATA P
IC5004<1>
TP5003
IC5002<1>
DATA LATCH
IC5001<1>
REC DATA P 7A
REC DATA N 7B
REC CLK P 8A
REC CLK N 8B
D PROC
XCAN CLK
XCAN DATA
IC5110<4>
RDA
RCLK
XTALK CANCELER
29, 32-35 38-40
PB CLK
IC5012<1>
10C REC MODE
REC CTRL 1 10A
REC CTRL 2 10B
L5101 Q5102 Q5103<2>
Q5101<2>
28C HA OUT PB N
28B HA OUT PB P
BUF
TRAP
TRAP ON
IC5101<2>
VAR AMP
Q5106 Q5107<2>
PHASE ADJ
L5103 L5104<2>
CUE TRAP
L5105 L5106<2>
LPF
IC5103<2>
AMP
RF MAG PB
RF PHS PB
HS PB
EQ CLK PB
IC5105<3>
98-101 105-108
HSW
EQ100
L5107<2>
ATF LPF
IC5104<2>
TP5005
SCLK SDE SDATA SCLK SDATA SDE ATF ENV
112-115 121-124
IC5108<3>
ENV MONI
TP5010
TP5009
IC5107<3>
PB DATA N 14B
PB DATA P 14A
PB CLK N 15B
PB CLK P 15A
SYSCON
22A REC I
EQ CLK 20A
EQ DATA 20B
EQ SDE 20C
SSCLK 17A
SSDE 17B
SSDATA 17C
SERVO
L5202 L5204<2>
BPF
IC5203<2>
ENV DETC.
IC5204<2>
TP5007
PB ENV 18C
LH HF
BPF SEL 23A
Q5401<5>
27C HA OUT RP N
27B HA OUT RP P
L5401<5>
IC5401<5>
Q5406 Q5407<5>
L5403 L5404<5>
L5405 L5406<5>
RF MAG RP
RF PHS RP
IC5405<6>
L5407<5>
IC5404<5>
TP5015
IC5408<6>
TP5020
TP5019
IC5004<6>
RP DATA N 12B
RP DATA P 12A
RP CLK N 13B
RP CLK P 13A
HS SELECTOR
IC5005<1>
21C EVR DATA
21B EVR CLK
21A EVR STB
DI
CLK
LD
IC5006<1>
REC CURR
REC FREQ
REC CURR 25B
REC FREQ 25C
IC5007<1>
IC5008<1>
RF PHS RP (3)
RF MAG RP (4)
RF PHS PB (1)
RF MAG PB (2)
TP5002
RP HSW
PB HSW
HS PB (5)
REC CURR2
REC CURR1
REC CURR2 24C
REC CURR1 24B
18B RP HSW
18A PB HSW
23C PB SEL

F3A:SDI BLOCK DIAGRAM(AJ-YA455P)



J3200<3>
SDI INPUT
BLACK
IC3201<3>
EQ & CLK GEN
32 SDO
31 SDO
39
QR3200 <3>
D3200 <3>
LOCK
LED ON under the SDI IN & Signal lock
J3201<3>
SDI THROU
RED
IC3203<3>
BUFF
IC3204<3>
SERIAL TO PARALLEL
S2P D (0-9) 10
S2P CLK
IC3300<4>
CLK BUFF
IC3301<4>
SDI DECODER
99 SIN FS128
55 SIN AUD12
54 SIN AUD34
86-89 ADDRESS BUS (0-3)
72-74 77-81 DATA BUS 5V (0-3)
83 RD L
84 WR L
85 CS DEC L
2 PAL H
94 DEC AMUTE
IC3502<6>
SYNC DET/GEN
ROUNDING 10→8BIT
176 CS SDI L
106 RST L
202 INCOM CF
203 INCOM FRM
204 INCOM HD
191-195 199-201 REC YC (0-7)
178 CS DEC L
189 PAL H
187 DEC AMUTE
DECOD (0-9) 10
S2P CLK FPGA 182
157 TDO
TMS
TDI
IC3501<6>
P3500<6>
TO PLD WRITER
2 TDO
3 TDI
6 TMS
8 TCK
IP3503<6>
PLD
TDI TMS TCK TDO
J3400<5>
S OUT2
YELLOW
J3401<5>
S OUT1
ORANGE
J3500<6>
S OUT3
GREEN
IC3204<5>
PARALLEL TO SERIAL
1-10 P2SD (0-9) 10
DELAY (4 CLOCK) DELAY
VIDEO INDEX ENCODER
IC3507<5>
PARALLEL TO SERIAL
1-10 MOND (0-9) 10
CHAR ADD (4 CLOCK) DELAY
141 OSC
136 HSYNC
138 VSYNC
139 VBLK
80 PS2 CLK4
P2S CLK2
P2S CLK3
IC3505<6>
CHAR GEN
IC3401<5>
SDI ENCODER
179 CS ENC L
188 ENC AMUTE
ENCOD (0-9)
98-102 108-112 ENCID (0-9)
83 RD L
84 WR L
86-89 ADDRESS BUS (0-3)
72-74 77-81 DATA BUS 5V (0-7)
PS2 CLK 1
IC3405<5>
BUFF
IC3102<2>
BUFF
ADDRESS BUS (0-10)
IC3103<2>
BUFF
RD L 14
WR L 15
CS SDI L 16
RST L 17
IC3104<2>
DIR BUFF
IC3105<2>
DIR BUFF
ADDRESS BUS (0, 1, 9, 10)
DATA BUS 5V (0-7)
IC3500<6>
BUFF
IC3400<5>
CLK BUFF
<1> P3000 P3001
SINCOM CLK27 21C 25A
PB DAUDCK 10A 26B
S PB AUD12 10B 26C
S PB AUD34 10C 27A
DAUD CLK 9A 25B
S REC AUD12 9B 25C
S REC AUD34 9C 26A
D PRO((F4)
<1> P3000 P1
AV ADRS (0-10) 23-26A 23-26A 23-25B 23-25B 22-25C 22-25C
AV IORD L 26B 26B
AV IOWR L 26C 26C
AV CS SDI L 22B 22A
AV RST L 27A 27A
SYSCON (F6)
AV DATA (0-7) 28, 29A 28, 29A 27-29B 27-29B 27-29C 27-29C
<1> P3000 P3001
INCOM CF 18A 21C
INCOM FRM 18B 22A
INCOM HD 18C 22B
REC YC (0-1) 19-21A 19-21A 19-21B 19-21B 19, 20C 19, 20C
D PRO((F4)
<1> P3000 P1
SDI YC (0-7) 15-17A 15-17A 14-17B 14-17B 14-16C 14-16C
P2
REF CF 17C 17B
V OUT (F2)
<1> P3000 P1
OSD CLK 7B 16A
OSD STB 7C 16C
OSD DATA 7A 16B
SYSCON (F6)
<1> P3000 P1
REF CLK SDI 14A 14A
V OUT (F2)

F3B: DIF BLOCK DIAGRAM (AJ-YAD455P)



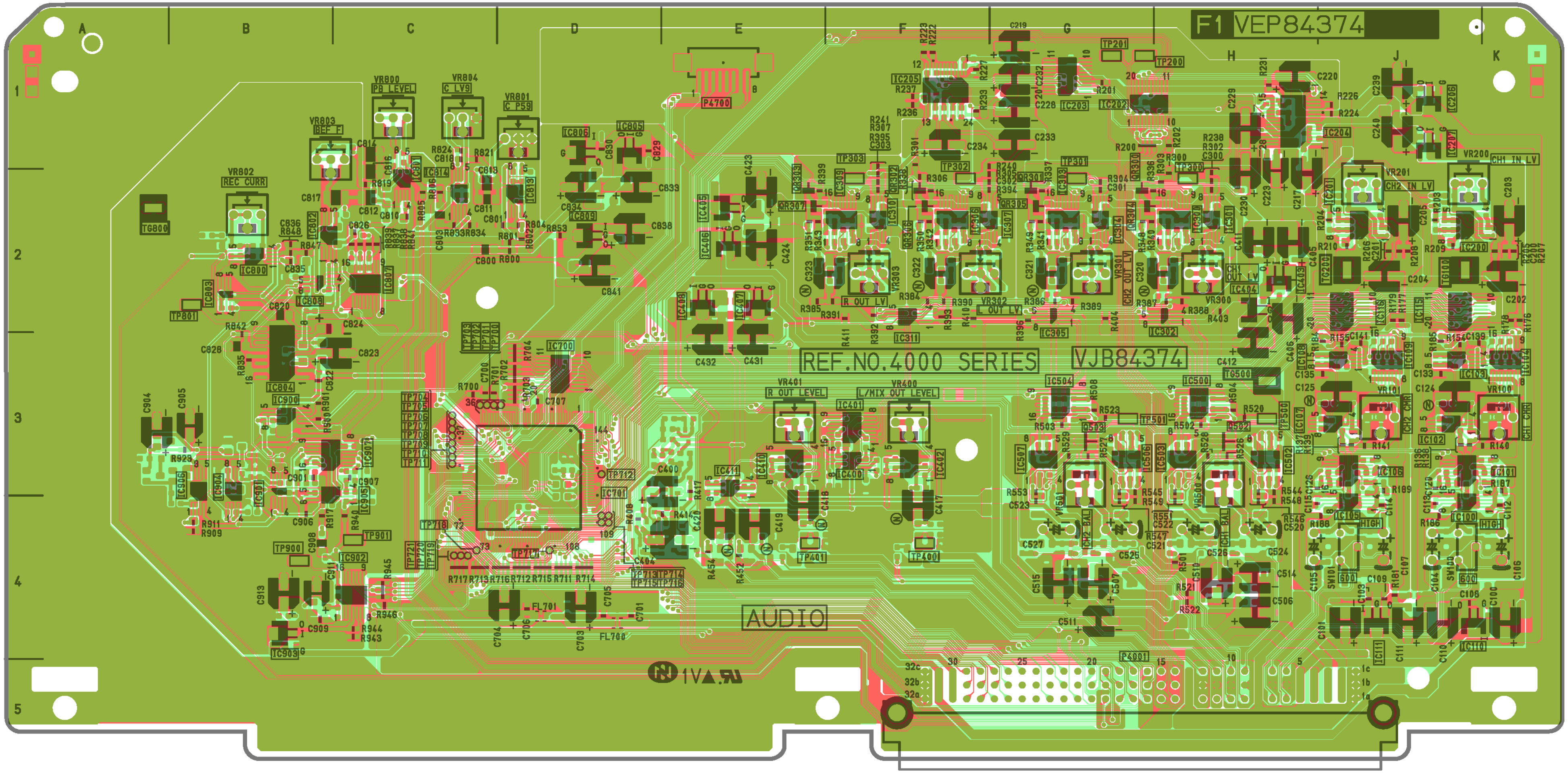
FLASH CONNECTOR
P401<4>
1 DSW1
2 DSW2
12 TXD
13 RXD
14 INVALID L
TO FLASH ROM VERSION UP TOOL
FLASH WRITE
P90
UP RXD0
UP TXD0
IC301<3>
TXD1
RXD1
RXD0
TXD0
uCOM
XIN
XOUT
82 UP TXD1
83 UP RXD1
IC208<2>
BUFF
12 IF TXD
9 IF RXD
2 AV RST L
IC207, 209, 210<2>
RESET PULSE GEN
SW202<2>
RESET
SYS RESET L
IC402<4>
EEPROM
DI
CS
DO
UP TXD EEPROM
UP CS EEPROM
UP RXD EEPROM
+3V
D301<3>
QR301<3>
LED2
D302<3>
QR302<3>
LED1
SW301<3>
TO DEBUG
1, 94-100
X301<3>
XTAL 20MHz
TP303<3> TP301<3>
TP302<3> TP304<3>
UP BLW L
UP BHW L
UP RD L
UP BCLK
TP305<3>
IC302<3>
BC DC L
53-68
UP D (0-15) 16
27-33 37-49
UP A (1-20) 20
IC401<4>
RESET
FLASH ROM
16-24, 48 1-9, 25
38-45 29-36
IC403, 404<4>
SRAM
21-26 8-10 1-7, 21
15-19 11-13
IC405<4>
DUAL PORT RAM
OEL
R/WL
CEL
31-34 26-29
51, 41-47 37-39
DIF DV SEL REC L
<1> P101 P3002
27C 27C
D PROC (F4)
IF TXD
IF RXD
P1394 RX 20A 22C
P1394 TX 20B 23A
<1> P101 P2
<1> P101 P1
AV RST L 6C 27A
AV ADDRESS (1-11)
AV ADDRESS (1-11) 3-5A 23-26A 2-5B 23-25B 2-5C 22-25C
AV DATA (0-7)
AV DATA (1-11) 7-9A 28, 29A 7-9B 27-29B 7, 8C 27-29C
AV IORD L 6A 26B
AV IOWR L 6B 26C
AV CS DIF L 2A 21A
SYSCON (F6)
XILINK CONNECTOR
P702<7>
2 TDO
3 TDI
6 TMS
8 TCK
TO PLD WRITER
IC704<7>
BUFF
IC705<7>
TDO
TDI
TMS
TCK
CONFIG PLD
17-20 4
SW701<7>
TO VERSION UP SETTING
IC501<5>
FLASH ROM
RY/BY
D702<4> QR702<7>
READY/BUSY
FLASH A (0-23) 24
FLASH D0 (0-8) 8
QR701<7>
D701<7>
CONFIG
+3V
XCV M DATA
XCV M CLK
TCK
TMS
IC601<6>
FPGA
CCLK
TCK
TMS
GCK2
GCK0
IC801<8>
DUAL PORT RAM
BC DPDT SDPDT (0-15) 16
BC DPDT SDPDT (0-11) 10
PB DV1 BD (0-3) 4
191, 187-189 REC DV1 BD (0-3) 4
PB DIF BD (0-3) 25, 26A 25B, 25C
REC DIF BD (0-3) 23, 24A 23B, 23C
D PROC (F4)
P101
TPA+ 6
TPA- 5
TPB+ 4
TPB- 3
DIF JACK C.B.A.
P102 P501<5>
TPA+
TPA-
TPB+
TPB-
IC501<5>
THS
TCK
1394 LINK PINE
PHY
BCLK
CLK18
XI 74
XO 73
XTAL 24.576MHz
X501<5>
BC AD (0-15) 16
130-133 DV2 BD (0-3) 4
228-231
IC902<9>
CCLK 14
BCLK 16
BUFF
IC901<9>
CLK GEN
IC903<9>
BUFF
IC903<9>
DIF CLK18 21C 21C D PROC (F4)

F1 AUDIO P.C. BOARD (VEP84374A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4100	J4	IC4110	J4	IC4206	J1	IC4307	F2	IC4404	H2	IC4503	H3	IC4803	B2	IC4900	B3	P4700	E1	QR4306	F2	TP4301	G2	TP4702	C3	TP4711	B3	TP4720	C4	VR4300	H2	VR4801	D1
IC4101	J3	IC4111	J4	IC4207	J1	IC4309	F2	IC4405	E2	IC4504	G3	IC4804	B3	IC4901	B3	Q4502	H3	QR4307	E2	TP4302	F2	TP4703	C3	TP4712	D3	TP4721	C4	VR4301	G2	VR4802	B2
IC4102	J3	IC4115	J2	IC4209	G1	IC4310	F2	IC4406	E2	IC4506	G3	IC4805	D1	IC4902	C4	Q4503	G3	TG4100	J2	TP4303	F2	TP4704	B3	TP4713	D4	TP4801	B2	VR4302	F2	VR4803	B1
IC4103	J3	IC4116	J2	IC4300	H2	IC4311	F2	IC4407	E2	IC4507	G3	IC4806	D1	IC4903	B4	QR4300	G2	TG4200	J2	TP4400	F4	TP4705	B3	TP4714	D4	TP4900	B4	VR4303	F2	VR4804	C1
IC4104	K3	IC4200	J2	IC4301	H2	IC4394	G2	IC4408	E2	IC4700	D3	IC4807	C2	IC4904	B3	QR4301	G2	TG4500	H3	TP4401	E4	TP4706	B3	TP4715	D4	TP4901	B4	VR4400	F3		
IC4105	J4	IC4201	J2	IC4302	H2	IC4400	F3	IC4410	E3	IC4701	D3	IC4808	B2	IC4905	B3	QR4302	F2	TG4800	A2	TP4500	H3	TP4707	B3	TP4716	D4	VR4100	K3	VR4401	E3		
IC4106	J3	IC4202	G1	IC4303	G2	IC4401	F3	IC4411	E3	IC4800	B2	IC4809	D2	IC4906	B3	QR4303	E2	TP4200	G1	TP4501	G3	TP4708	B3	TP4717	D4	VR4101	J3	VR4500	H3		
IC4108	J3	IC4204	H1	IC4305	G2	IC4402	F3	IC4500	H3	IC4801	C2	IC4813	D2	IC4907	B3	QR4304	G2	TP4201	G1	TP4700	C3	TP4709	B3	TP4718	C4	VR4200	J2	VR4501	G3		
IC4109	J3	IC4205	F1	IC4306	F2	IC4403	H2	IC4502	H3	IC4802	B2	IC4814	C2	P4001	G4	QR4305	G2	TP4300	H2	TP4701	C3	TP4710	B3	TP4719	C4	VR4201	J2	VR4800	C1		

CBA-1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F1 VEP84374
REF.NO.4000 SERIES
VJB84374
AUDIO
VR800 PB LEVEL
VR804 C LV9
VR801 C P59
VR803 REF F
VR802 REC CURR
VR401 R OUT LEVEL
VR400 L/MIX OUT LEVEL
VR200 CH1 IN LV
VR201 CH2 IN LV
VR300 R OUT LV
VR302 L OUT LV
TG800
TP801
TP900
P4700
P4001
IC700
IC800
IC900
1VA

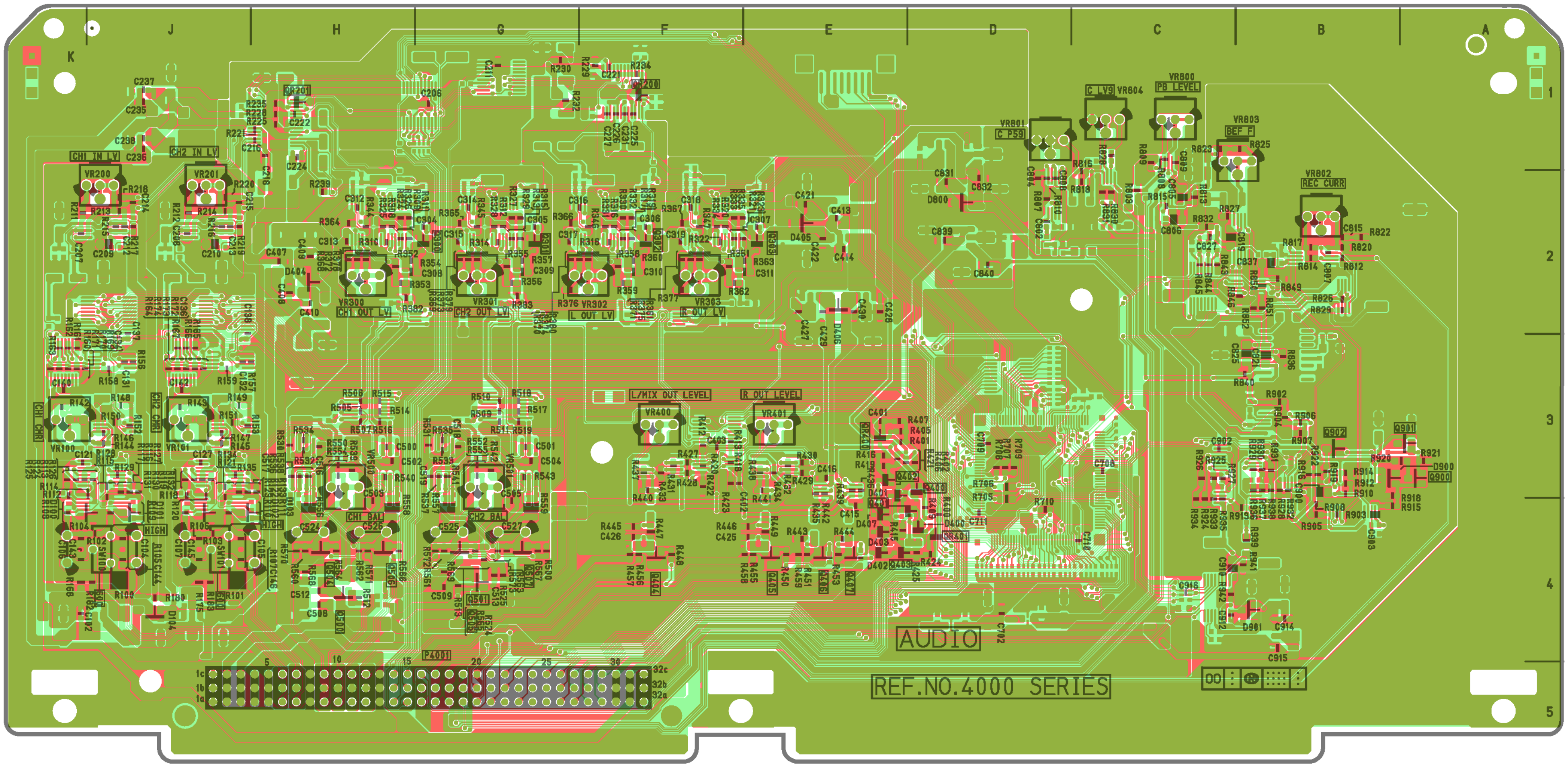
(COMPONENT SIDE)

F1 AUDIO P.C. BOARD (VEP84374A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
P4001	G5	Q4404	F4	Q4507	G4	VR4101	L3	VR4500	H3
Q4300	G2	Q4405	E4	Q4900	A3	VR4200	L2	VR4501	G3
Q4301	G2	Q4406	E4	Q4901	A3	VR4201	L2	VR4800	C1
Q4302	F2	Q4407	E4	Q4902	B3	VR4300	H2	VR4801	D1
Q4303	E2	Q4500	H4	QR4200	F1	VR4301	G2	VR4802	B2
Q4400	D3	Q4501	G4	QR4201	H1	VR4302	F2	VR4803	B1
Q4401	D4	Q4504	H4	QR4400	E3	VR4303	F2	VR4804	C1
Q4402	E3	Q4505	G4	QR4401	D4	VR4400	F3		
Q4403	E4	Q4506	H4	VR4100	K3	VR4401	E3		

CBA-2


K
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CH1 IN LV
CH2 IN LV
VR200
VR201
VR300
VR301
VR302
VR303
CH1 OUT LV
CH2 OUT LV
L OUT LV
R OUT LV
L/MIX OUT LEVEL
R OUT LEVEL
VR400
VR401
CH1 CHR
CH2 CHR
VR100
VR101
HIGH
CH1 BAL
CH2 BAL
C LV
VR804
VR800
PB LEVEL
VR801
C P59
VR803
BEF F
VR802
REC CURR
P4001
AUDIO
REF.NO.4000 SERIES

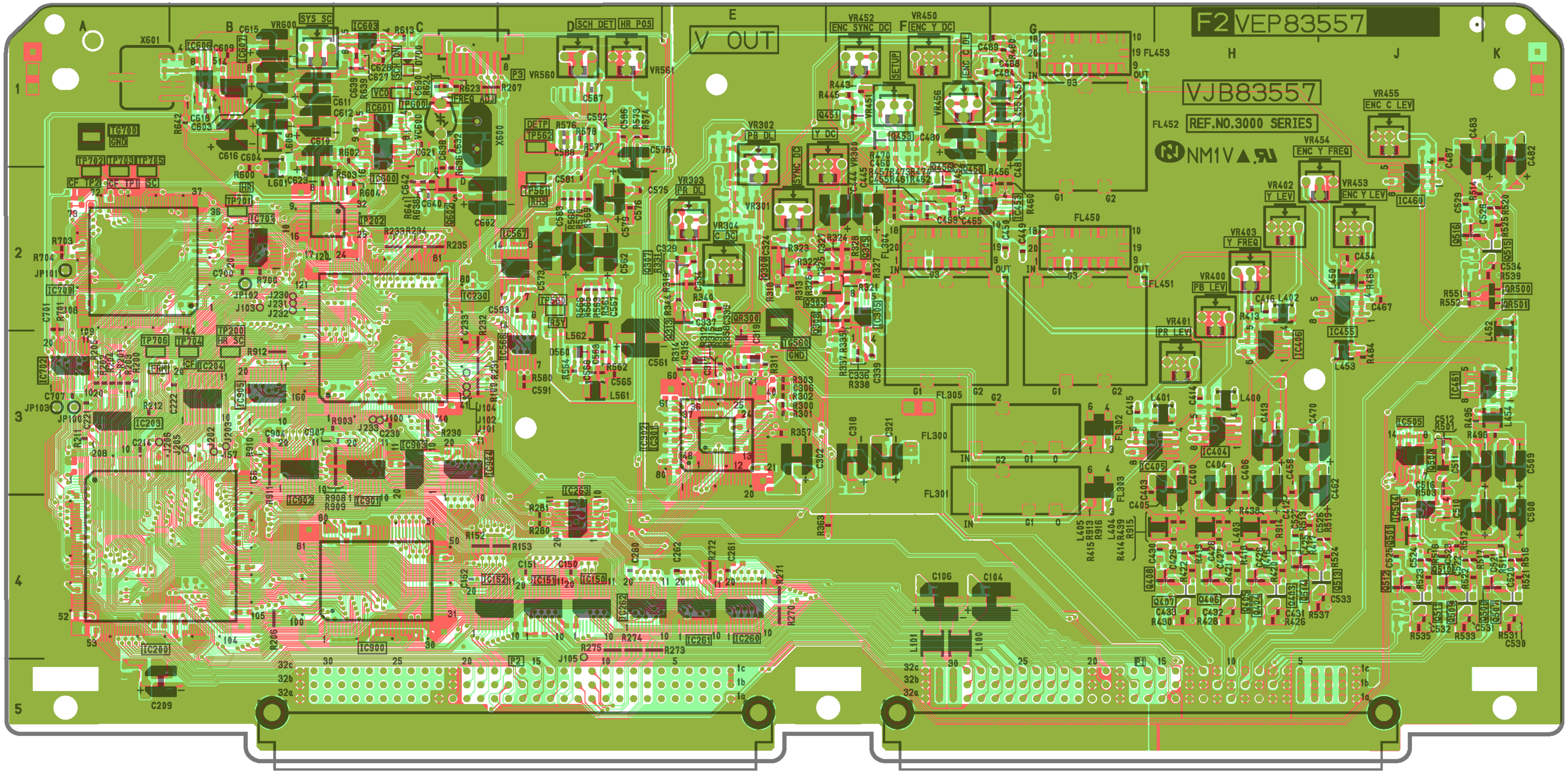
(FOIL SIDE)

F2 V OUT P.C. BOARD (VEP83557A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3150	D4	IC3262	D4	IC3455	J2	IC3603	C1	IC3903	C3	Q3307	E2	Q3453	F1	Q3511	J4	TG3560	E2	TP3703	A2	VR3304	E2	VR3454	H2
IC3151	D4	IC3263	D4	IC3460	J2	IC3606	B1	IC3904	C3	Q3313	E2	Q3456	F2	Q3512	J4	TG3700	A1	TP3704	B3	VR3400	H2	VR3455	J1
IC3152	C4	IC3301	E3	IC3461	K3	IC3607	B1	IC3905	B3	Q3403	H4	Q3458	F2	Q3514	H4	TP3200	B3	TP3705	A2	VR3401	H3	VR3456	F1
IC3200	A4	IC3302	E3	IC3504	J4	IC3700	A2	IP3202	B2	Q3404	H4	Q3500	J3	Q3515	K2	TP3560	D2	TP3706	A3	VR3402	H2	VR3560	D1
IC3203	A3	IC3305	F2	IC3505	J3	IC3701	B2	P3001	H5	Q3405	H4	Q3500	J4	Q3516	J2	TP3561	D2	VC3600	C1	VR3403	H2	VR3561	D1
IC3204	B3	IC3404	H3	IC3556	D3	IC3702	A3	P3002	D5	Q3406	H4	Q3501	J4	Q3602	C2	TP3562	D1	VR3300	E1	VR3450	F1	VR3600	B1
IC3230	C2	IC3405	H3	IC3567	D2	IC3900	C4	P3003	C1	Q3407	H4	Q3507	K4	QR3300	E3	TP3600	C1	VR3301	E2	VR3451	F1		
IC3260	E4	IC3406	H3	IC3600	C2	IC3901	C3	Q3300	E2	Q3408	H4	Q3508	K4	QR3500	K2	TP3701	B2	VR3302	E1	VR3452	F1		
IC3261	E4	IC3453	F2	IC3601	C1	IC3902	B3	Q3305	F2	Q3451	F1	Q3509	J4	QR3501	K2	TP3702	A2	VR3303	E2	VR3453	J2		

CBA-3



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V OUT
F2 VEP83557
VJB83557
REF.NO.3000 SERIES
NM1V
SYS SC
SCH DET
HR POS
ENC SYNC DC
ENC Y DC
ENC C LEV
ENC Y FREQ
ENC Y LEV
Y LEV
Y FREQ
PB LEV
PR LEV
PB DL
PR DL
C DC
SYNC DC
SETUP
FREQ ADJ
VR600
VR560
VR561
VR452
VR450
VR455
VR454
VR453
VR402
VR403
VR400
VR401
VR302
VR303
VR304
VR301
FL450
FL451
FL452
FL453
FL300
FL301
FL305
X601
X600
TG700
GND
TG560
IC3303
IC3903
IC3900
IC3901
IC3902
C106
C104
L101
L100
C209

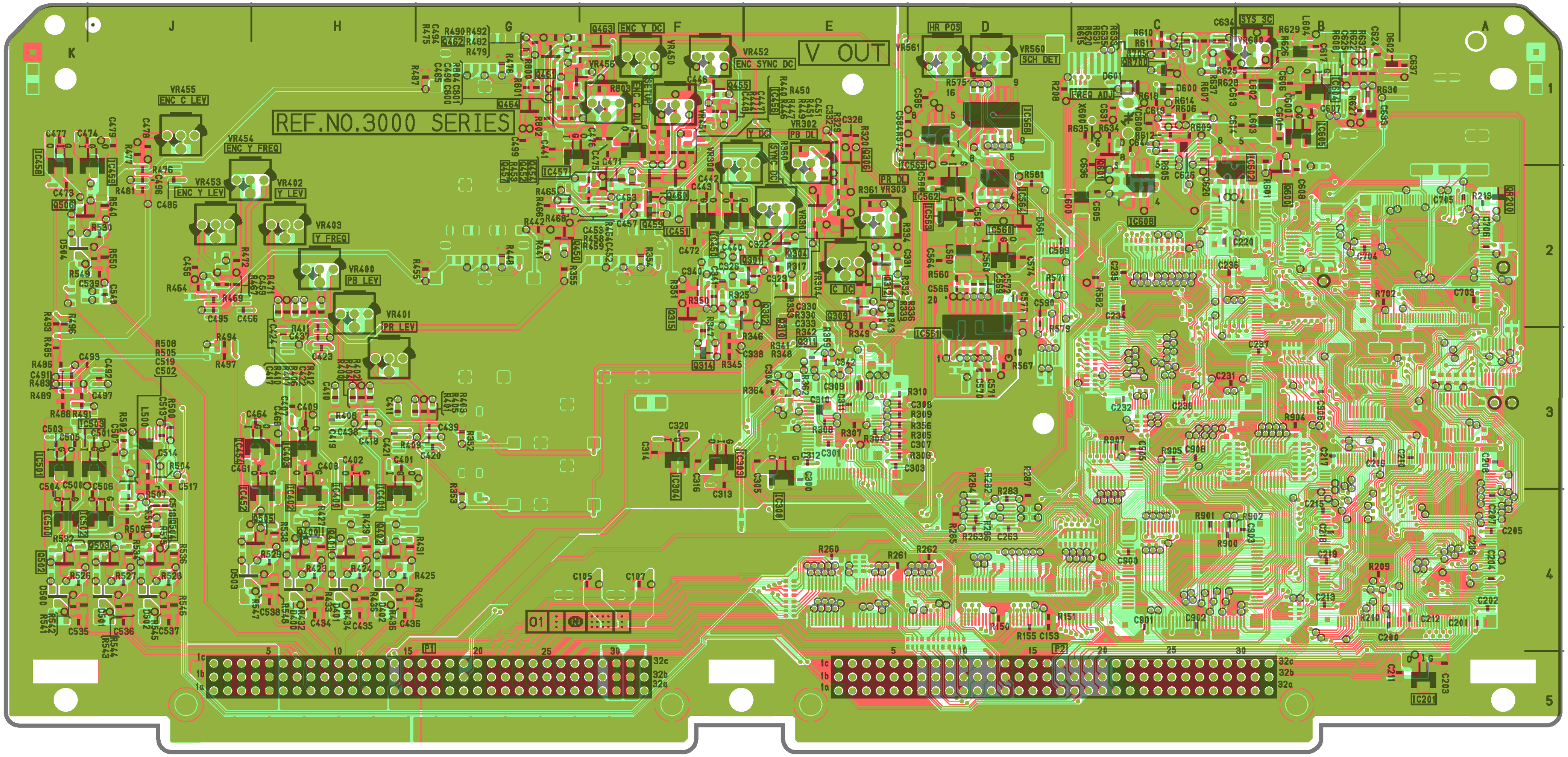
(COMPONENT SIDE)

F2 V OUT P.C. BOARD (VEP83557A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3201	A5	IC3451	F2	IC3502	J4	IC3602	B1	Q3309	E2	Q3450	G2	Q3463	F1	QR3200	A2	VR3401	H3	VR3456	F1
IC3300	E3	IC3452	H4	IC3503	J3	IC3605	B1	Q3310	E2	Q3452	F2	Q3464	G1	QR3700	C1	VR3402	H2	VR3550	D1
IC3303	F3	IC3454	H3	IC3560	D2	IC3608	C2	Q3311	E2	Q3454	F2	Q3502	K4	VC3600	C1	VR3403	H2	VR3551	D1
IC3304	F3	IC3456	F1	IC3561	D3	P3001	G5	Q3312	E2	Q3455	F1	Q3503	J4	VR3300	E1	VR3450	F1	VR3600	B1
IC3400	H4	IC3457	G1	IC3562	D2	P3002	D5	Q3314	F3	Q3457	F2	Q3504	J4	VR3301	E2	VR3451	F1		
IC3401	H4	IC3458	K1	IC3563	D2	Q3301	E2	Q3315	F2	Q3459	F2	Q3505	H4	VR3302	E1	VR3452	F1		
IC3402	H4	IC3459	J2	IC3564	D2	Q3302	F2	Q3400	H4	Q3460	F2	Q3506	K2	VR3303	E2	VR3453	J2		
IC3403	H3	IC3500	K4	IC3565	D1	Q3304	E2	Q3401	H4	Q3461	G1	Q3600	B2	VR3304	E2	VR3454	H2		
IC3450	F2	IC3501	K3	IC3568	D1	Q3306	E1	Q3402	H4	Q3462	G1	Q3601	C1	VR3400	H2	VR3455	J1		

CBA-4


K
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V OUT
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VR455
ENC C LEV
VR454
ENC Y FREQ
VR453
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VR402
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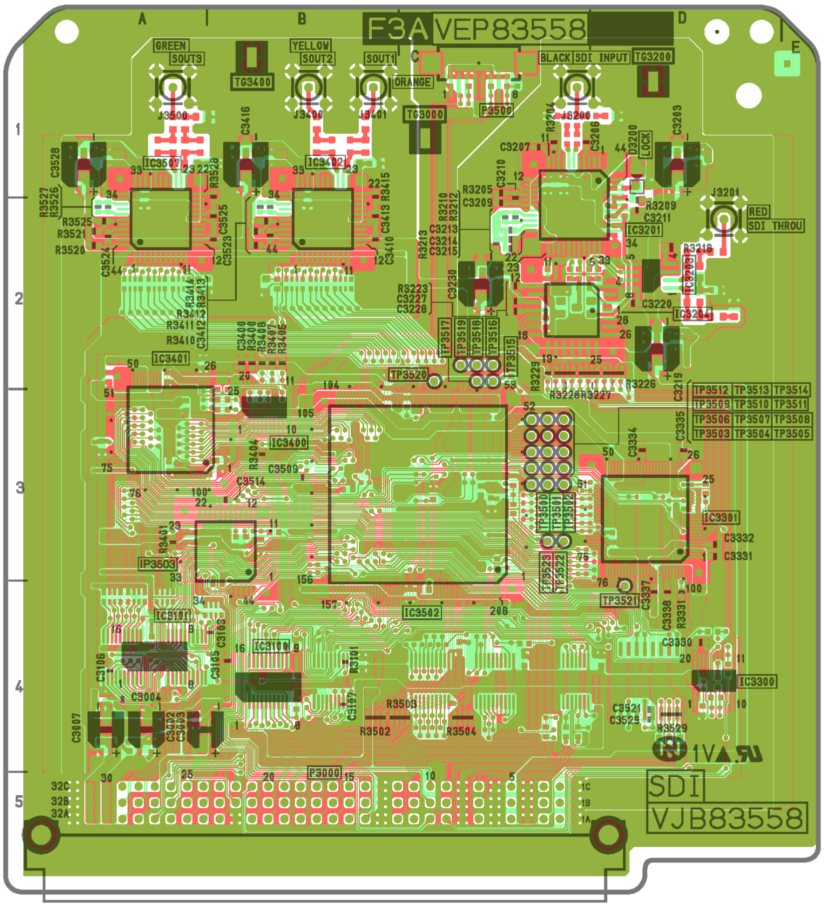
VR403
Y FREQ
VR400
PB LEV
VR401
PR LEV
VR452
ENC SYNC DC
Q463
ENC Y DC
HR POS
VR560
SCH DET
VR561
SYS SC
FREQ ADJ
PR DL
VR303
PB DL
VR302
Y DC
SYNC DC
C DC
P1
P2
1c
1b
1a
32c
32b
32a
IC201
IC3201

(FOIL SIDE)

F3A SDI P.C. BOARD (VEP83558A) (AJ-YA455P)

COMPONENT SIDE

REF	LOC
IC3100	B4
IC3101	A4
IC3201	C2
IC3203	D2
IC3204	C2
IC3300	D4
IC3301	D3
IC3400	B3
IC3401	A3
IC3402	B2
IC3502	C3
IC3507	A2
IP3503	B3
P3000	B5
P3500	C1
TG3000	C1
TG3200	D1
TG3400	B1
TP3500	C3
TP3501	C3
TP3503	C3
TP3504	C3
TP3505	C3
TP3506	C3
TP3507	C3
TP3508	C3
TP3509	C3
TP3510	C3
TP3511	C3
TP3512	C3
TP3513	C3
TP3514	C3
TP3515	C2
TP3516	C2
TP3517	C2
TP3518	C2
TP3519	C2
TP3520	C2
TP3521	D4
TP3522	C3
TP3523	C3


A
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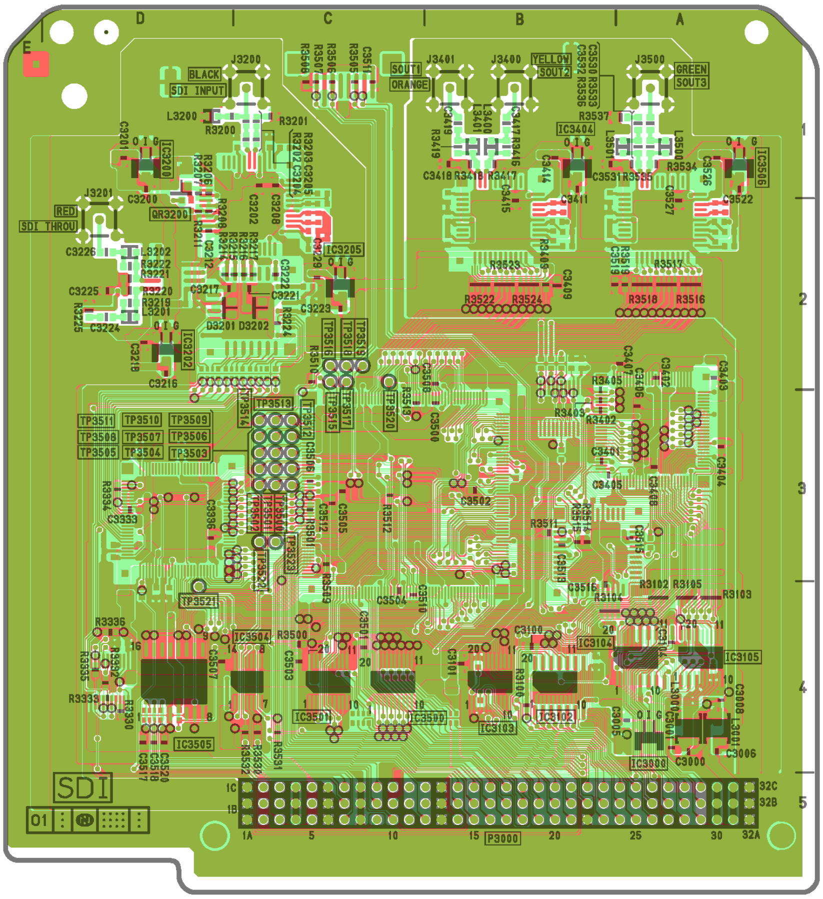
F3A VEP83558
GREEN SOUT3
YELLOW SOUT2
SOUT1 ORANGE
BLACK SDI INPUT
TG3400
TG3000
TG3200
P3500
J3500
J3400
J3401
J3200
J3201
RED SDI THROU
IC3507
IC3402
IC3201
IC3204
IC3401
IC3400
IC3503
IC3101
IC3100
IC3502
IC3301
IC3300
P3000
SDI
VJB83558

(COMPONENT SIDE)

FOIL SIDE

REF	LOC
IC3000	A4
IC3102	B4
IC3103	B4
IC3104	A4
IC3105	A4
IC3200	D1
IC3202	D2
IC3205	C2
IC3404	B1
IC3500	C4
IC3501	C4
IC3504	C4
IC3505	D4
IC3506	A1
P3000	B5
QR3200	D1
TP3500	C3
TP3501	C3
TP3502	C3
TP3503	C3
TP3504	C3
TP3506	C3
TP3507	C3
TP3508	C3
TP3509	C3
TP3509	C3
TP3510	C3
TP3511	C3
TP3512	C3
TP3513	C3
TP3514	C3
TP3515	C2
TP3516	C2
TP3517	C2
TP3518	C2
TP3519	C2
TP3520	C2
TP3521	D4
TP3522	C3
TP3523	C3


D
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BLACK SDI INPUT
RED SDI THROU
SOUT1 ORANGE
YELLOW SOUT2
GREEN SOUT3
J3200
J3201
J3401
J3400
J3500
IC3200
IC3202
IC3205
IC3404
IC3506
QR3200
IC3504
IC3505
IC3501
IC3500
IC3103
IC3102
IC3104
IC3105
IC3000
P3000
SDI

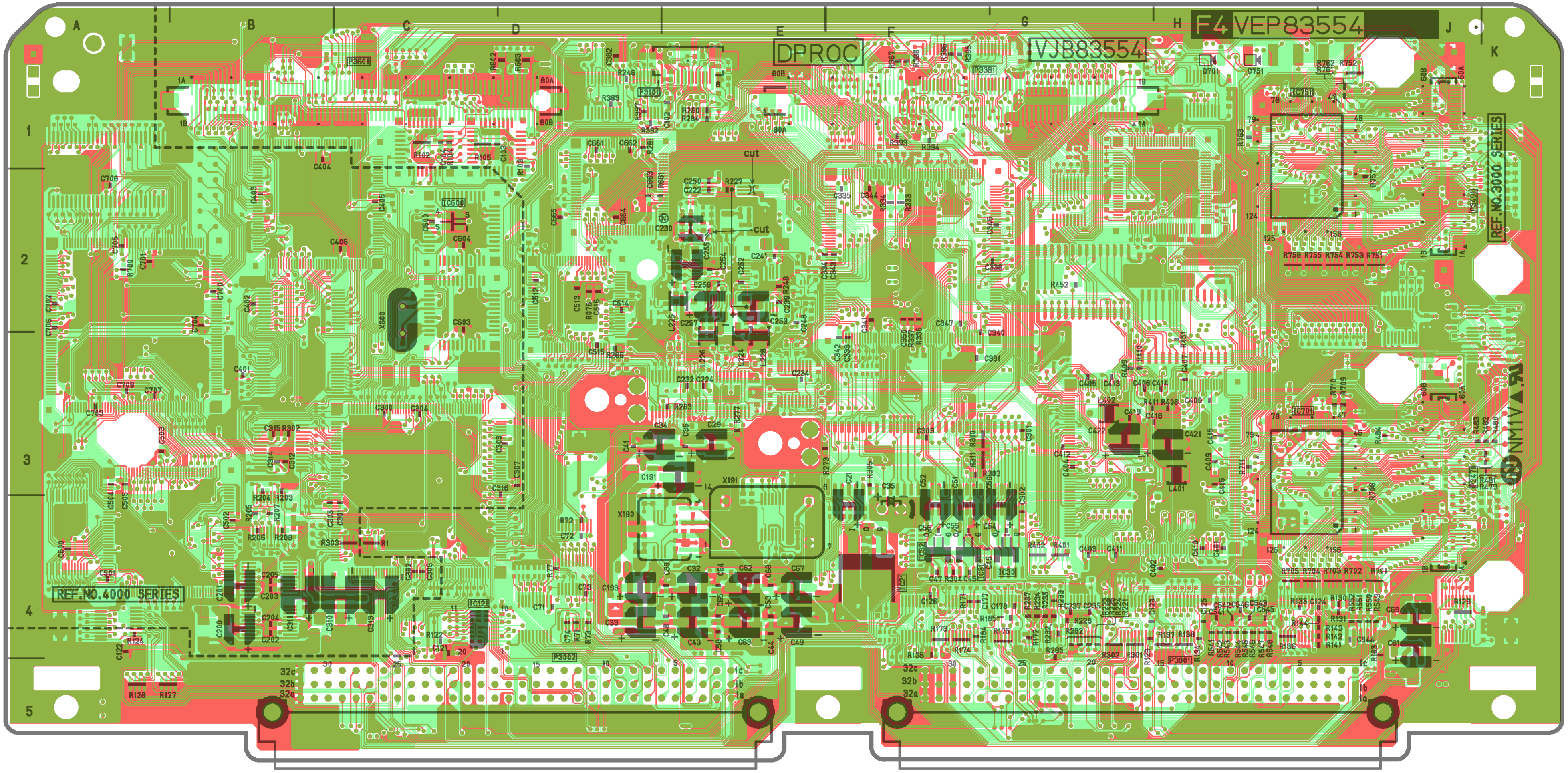
(FOIL SIDE)

F4 D PROC P.C.BOARD (VEP83554A)

COMPONENT SIDE

REF	LOC	REF	LOC
IC3021	F4	P3002	D5
IC3030	G4	P3101	E1
IC3031	F4	P3381	F1
IC3032	F4	P3471	J3
IC3121	C4	P3491	J1
IC3701	H3	P3601	C1
IC3751	H1		
IC4600	C2		
P3001	H5		

CBA-6


A
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F4 VEP83554
DPROC
VJB83554
REF.NO.3000 SERIES
REF.NO.4000 SERIES
NM1V
P3601
P3101
P3381
P3002
P3001
X600
X191
X190
cut
cut

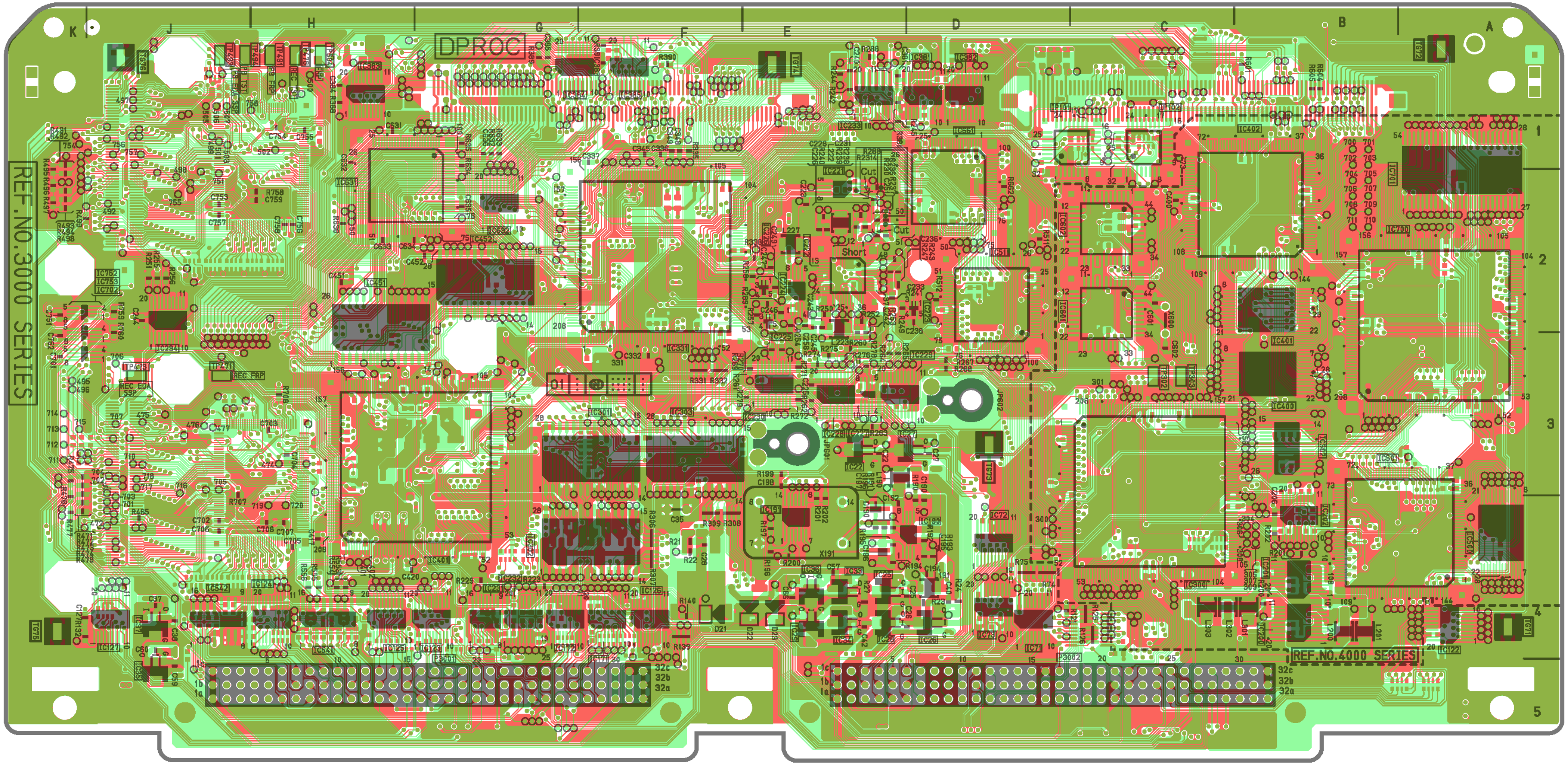
(COMPONENT SIDE)

F4 D PROC P.C.BOARD (VEP83554A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3022	E3	IC3036	E4	IC3126	F4	IC3223	D2	IC3233	E1	IC3383	H1	IC3631	H2	IC4302	B3	IC4701	A2	TG3074	E1	TP3504	H1
IC3025	E4	IC3037	J4	IC3127	J4	IC3224	E2	IC3290	E3	IC3384	F1	IC3632	G2	IC4400	B3	IC4900	C4	TG3075	K4	TP4302	C3
IC3026	D4	IC3071	D4	IC3129	G4	IC3225	E2	IC3294	J2	IC3385	F1	IC3661	D2	IC4401	B2	IP3101	D1	TG3076	J1	TP4303	C3
IC3027	E3	IC3072	A1	IC3171	F4	IC3226	E2	IC3301	F3	IC3401	G3	IC3702	K3	IC4402	B2	IP3102	C1	TP3471	J3		
IC3028	E4	IC3072	D4	IC3172	G4	IC3227	E3	IC3302	F4	IC3451	H2	IC3752	K2	IC4500	A4	P3001	G5	TP3473	J3		
IC3029	E4	IC3073	D4	IC3190	D4	IC3228	E3	IC3303	F3	IC3452	H2	IC3759	K2	IC4501	B4	P3002	D5	TP3478	H1		
IC3033	E4	IC3122	A5	IC3191	E4	IC3229	E3	IC3331	F2	IC3511	D2	IC4200	B5	IC4601	C2	TG3071	A4	TP3491	H1		
IC3034	E4	IC3124	H4	IC3221	E2	IC3231	G4	IC3381	D1	IC3541	H4	IC4201	B5	IC4602	C2	TG3072	A1	TP3493	J1		
IC3035	J5	IC3125	H4	IC3222	E2	IC3232	G4	IC3382	D1	IC3542	J4	IC4202	B5	IC4700	A2	TG3073	D3	TP3494	J1		

CBA-7

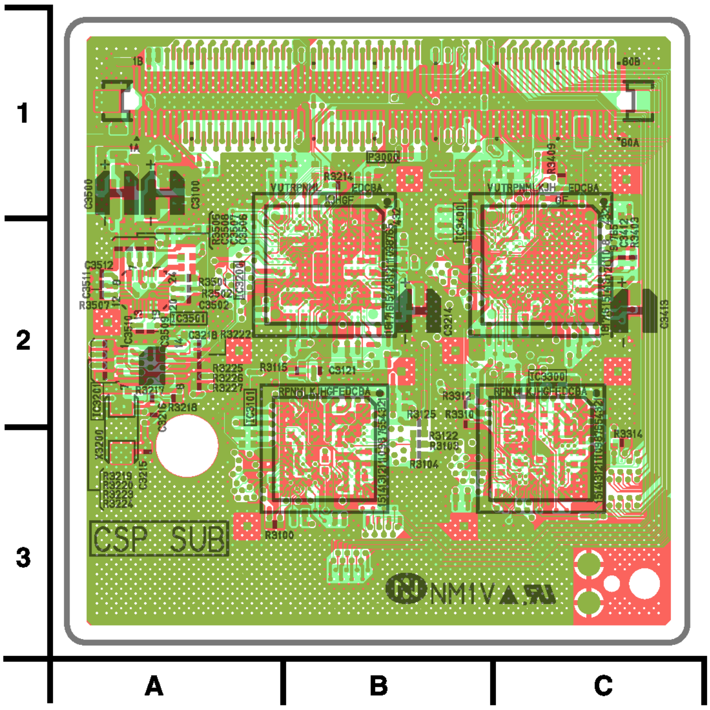


(FOIL SIDE)

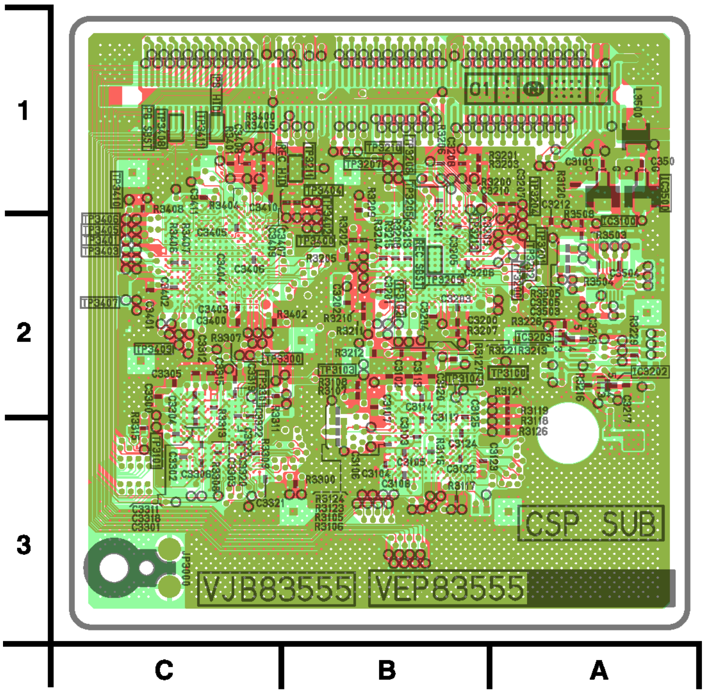
CSP SUB P.C. BOARD (VEP83555A)

COMPONENT SIDE

REF	LOC
IC3101	B3
IC3200	B2
IC3201	A2
IC3300	C3
IC3400	C2
IC3501	A2
P3000	B1



(COMPONENT SIDE)



(FOIL SIDE)

FOIL SIDE

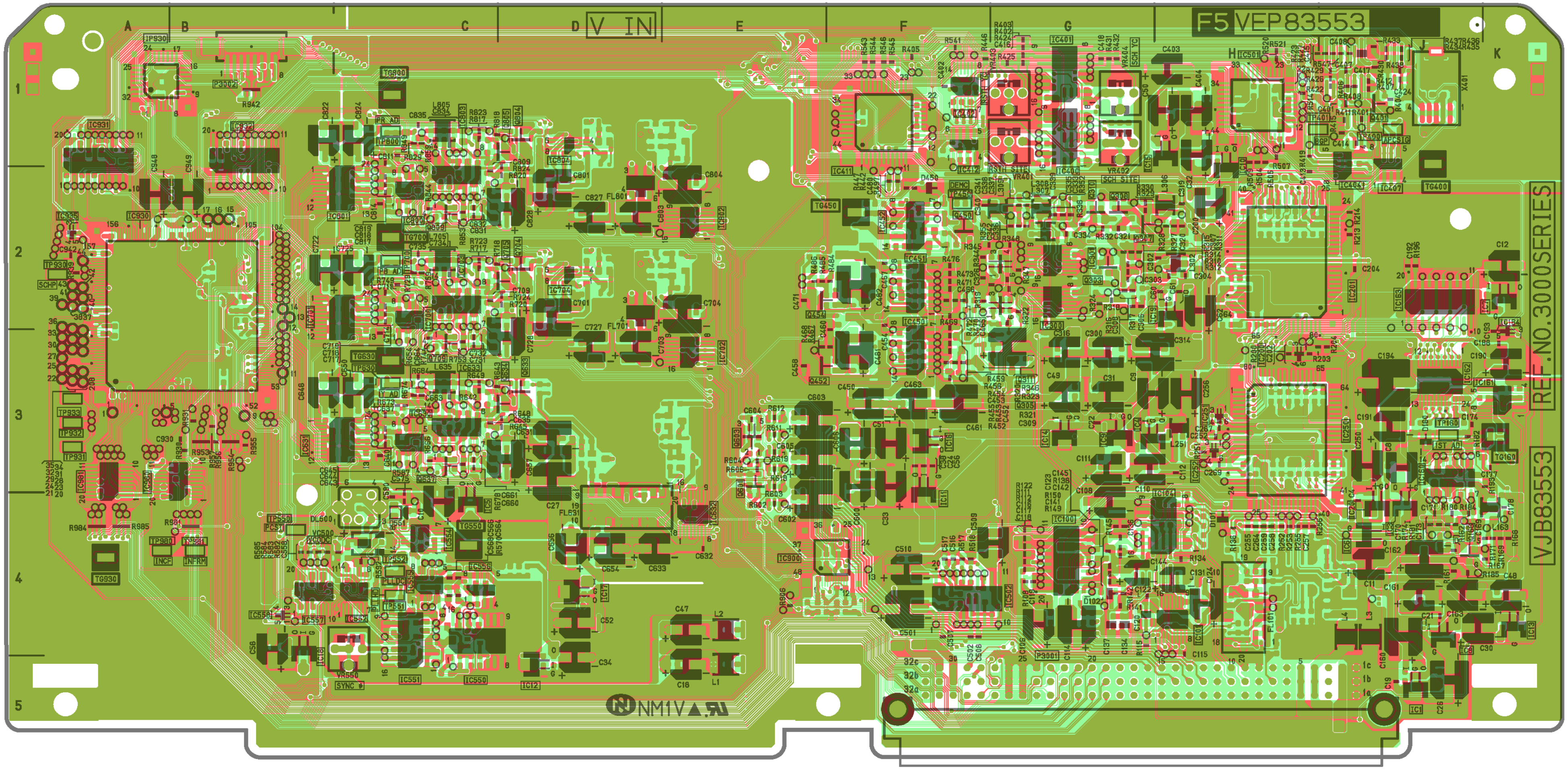
REF	LOC
IC3100	A1
IC3202	A2
IC3203	A2
IC3204	A1
IC3500	A1
TP3100	A2
TP3101	C3
TP3102	B2
TP3103	B2
TP3104	B2
TP3200	A2
TP3201	A2
TP3202	A2
TP3204	A1
TP3205	B1
TP3207	B1
TP3208	B1
TP3209	B2
TP3210	B1
TP3211	B1
TP3213	B1
TP3300	C2
TP3301	C2
TP3400	B2
TP3401	C2
TP3402	B2
TP3403	C2
TP3404	B1
TP3405	C2
TP3406	C2
TP3407	C2
TP3408	C1
TP3409	C2
TP3410	C1
TP3411	C1

F5 V IN P.C. BOARD (VEP83553A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3001	J5	IC3011	F3	IC3020	J4	IC3200	H3	IC3402	F1	IC3502	F4	IC3631	C3	IC3802	E2	IP3930	A1	Q3311	G3	Q3637	C3	TG3450	F2	TP3450	F2	TP3933	A3
IC3003	J4	IC3012	D5	IC3100	G4	IC3201	H2	IC3404	J1	IC3550	C4	IC3632	E4	IC3803	C2	P3001	G5	Q3401	J1	Q3704	D2	TG3550	C4	TP3550	B4	TP3980	A4
IC3004	G3	IC3013	K4	IC3101	H4	IC3250	H3	IC3407	J1	IC3551	C4	IC3633	C3	IC3804	D1	P3002	B1	Q3450	F2	Q3705	D2	TG3630	C3	TP3551	C4	TP3981	B4
IC3005	C4	IC3014	G3	IC3104	H4	IC3251	H3	IC3411	F1	IC3554	C4	IC3700	C2	IC3900	F4	Q3166	J4	Q3452	E3	Q3709	C3	TG3700	C2	TP3552	C4	VC3500	C4
IC3006	J4	IC3015	H1	IC3160	J3	IC3252	H3	IC3412	F1	IC3555	C4	IC3702	E3	IC3931	A1	Q3303	G2	Q3504	E2	Q3804	D1	TG3800	C1	TP3603	C3	VR3401	G1
IC3007	K2	IC3016	F3	IC3161	K3	IC3300	G2	IC3450	F3	IC3556	C4	IC3703	C2	IC3932	B1	Q3305	G3	Q3601	E3	Q3805	D1	TG3930	A4	TP3700	C2	VR3402	G1
IC3008	J4	IC3017	D4	IC3162	J3	IC3301	G2	IC3451	F2	IC3557	B4	IC3704	D2	IC3935	A2	Q3307	G2	Q3603	E3	Q3809	C2	TP3160	J3	TP3800	C1	VR3403	G1
IC3009	G3	IC3018	B4	IC3163	J2	IC3400	G1	IC3452	F2	IC3558	B4	IC3800	C2	IC3980	B3	Q3308	G2	Q3633	D3	TG3160	K3	TP3400	J1	TP3931	A3	VR3404	G1
IC3010	H1	IC3019	H2	IC3164	K2	IC3401	G1	IC3501	H1	IC3630	C3	IC3801	C2	IC3981	A3	Q3310	G2	Q3634	D3	TG3400	J1	TP3401	J1	TP3932	A3	VR3550	C4

CBA-9



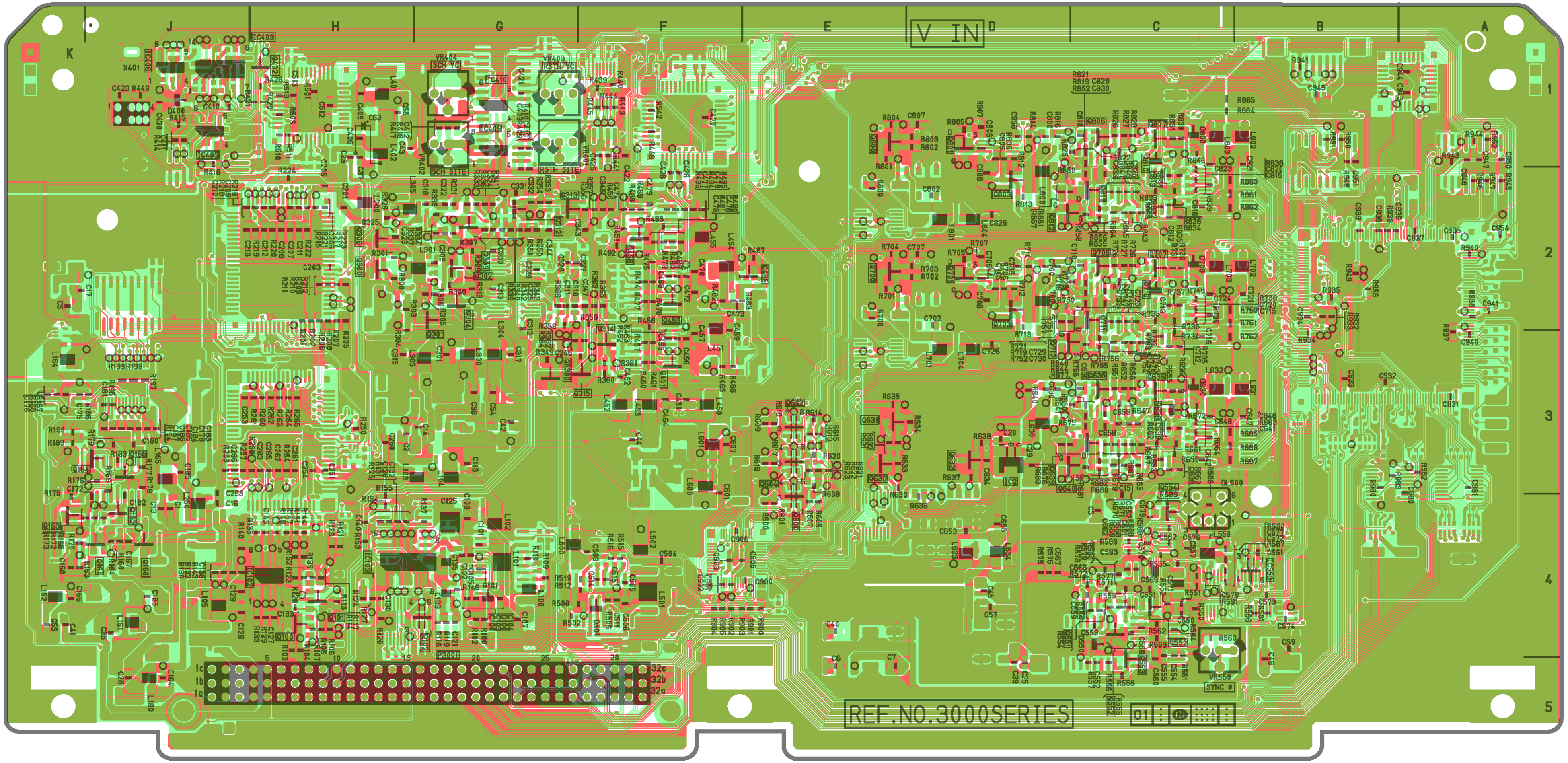
(COMPONENT SIDE)

F5 V IN P.C.BOARD (VEP83553A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3002	D3	P3001	G5	Q3165	J3	Q3314	F3	Q3552	C4	Q3635	C3	Q3710	C2	Q3811	C2
IC3102	H4	Q3100	H4	Q3300	H2	Q3315	F3	Q3553	C5	Q3638	C3	Q3711	C2	Q3812	D2
IC3103	H4	Q3101	H4	Q3301	G2	Q3402	H1	Q3554	C4	Q3639	C3	Q3712	D3	QR3300	G3
IC3403	J1	Q3102	G4	Q3302	G2	Q3451	F3	Q3600	E4	Q3640	D3	Q3800	E1	VR3401	G1
IC3405	J1	Q3160	J4	Q3304	G2	Q3453	F2	Q3602	E3	Q3700	E2	Q3801	D1	VR3402	G1
IC3406	J1	Q3161	J4	Q3306	H2	Q3455	E2	Q3604	E3	Q3701	D2	Q3803	D2	VR3403	G1
IC3409	G1	Q3162	J4	Q3309	G2	Q3456	F2	Q3630	E3	Q3703	D2	Q3806	C1	VR3404	G1
IC3410	G1	Q3163	K4	Q3312	G2	Q3550	C4	Q3631	E3	Q3706	C2	Q3807	C1	VR3550	C4
IC3553	B4	Q3164	J3	Q3313	G2	Q3551	C4	Q3632	D3	Q3707	C2	Q3810	C1		

CBA-10



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F6 SYSCON P.C. BOARD (VEP86314A)

COMPONENT SIDE

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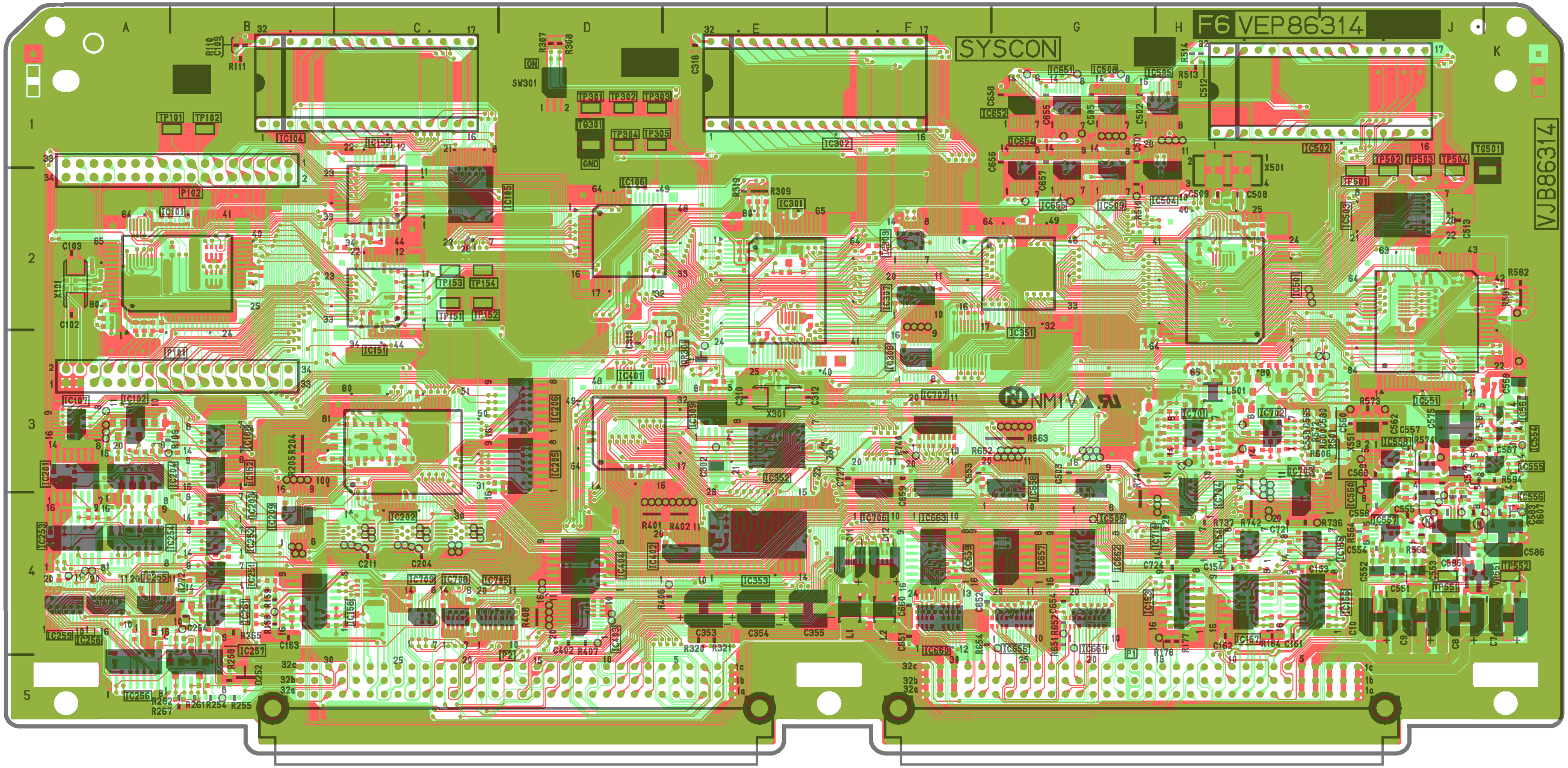
IC101	B2	IC153	H4	IC203	B4	IC255	A4	IC306	F3	IC404	D4	IC551	J3	IC652	G1	IC662	G4	IC708	C4	TG501	K1	TP303	D1	VR551	K4
IC102	A3	IC154	H4	IC204	A3	IC256	A5	IC307	F2	IC501	H2	IC554	K3	IC654	G1	IC663	F3	IC709	C4	TP101	B1	TP304	D1		
IC104	C1	IC155	H4	IC205	D3	IC257	B5	IC309	E3	IC502	H1	IC555	K3	IC655	G1	IC701	H3	IC710	H4	TP102	B1	TP305	D1		
IC105	C2	IC156	H4	IC206	D3	IC258	A4	IC351	G2	IC503	J2	IC556	K3	IC656	G4	IC702	H3	P1	G5	TP151	C2	TP501	J1		
IC106	D2	IC157	H4	IC209	B4	IC259	A4	IC352	E3	IC504	H2	IC557	J4	IC657	G4	IC703	H3	P2	D5	TP152	C2	TP502	J1		
IC107	A3	IC158	B4	IC251	B4	IC261	B4	IC353	E4	IC505	H1	IC558	J3	IC658	G3	IC704	H3	P101	B3	TP153	C2	TP503	J1		
IC108	B3	IC159	C2	IC252	B4	IC301	E2	IC401	D3	IC506	G3	IC560	J3	IC659	F4	IC705	C4	P102	B2	TP154	C2	TP504	J1		
IC151	C2	IC201	A3	IC253	A4	IC302	E1	IC402	E4	IC508	G1	IC561	K3	IC660	F4	IC706	F3	QR301	E3	TP301	D1	TP551	J4		
IC152	B3	IC202	C3	IC254	A4	IC303	F2	IC403	D4	IC509	G1	IC651	G1	IC661	G4	IC707	F3	TG301	D1	TP302	D1	TP552	J4		

CBA-11



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VJB86314
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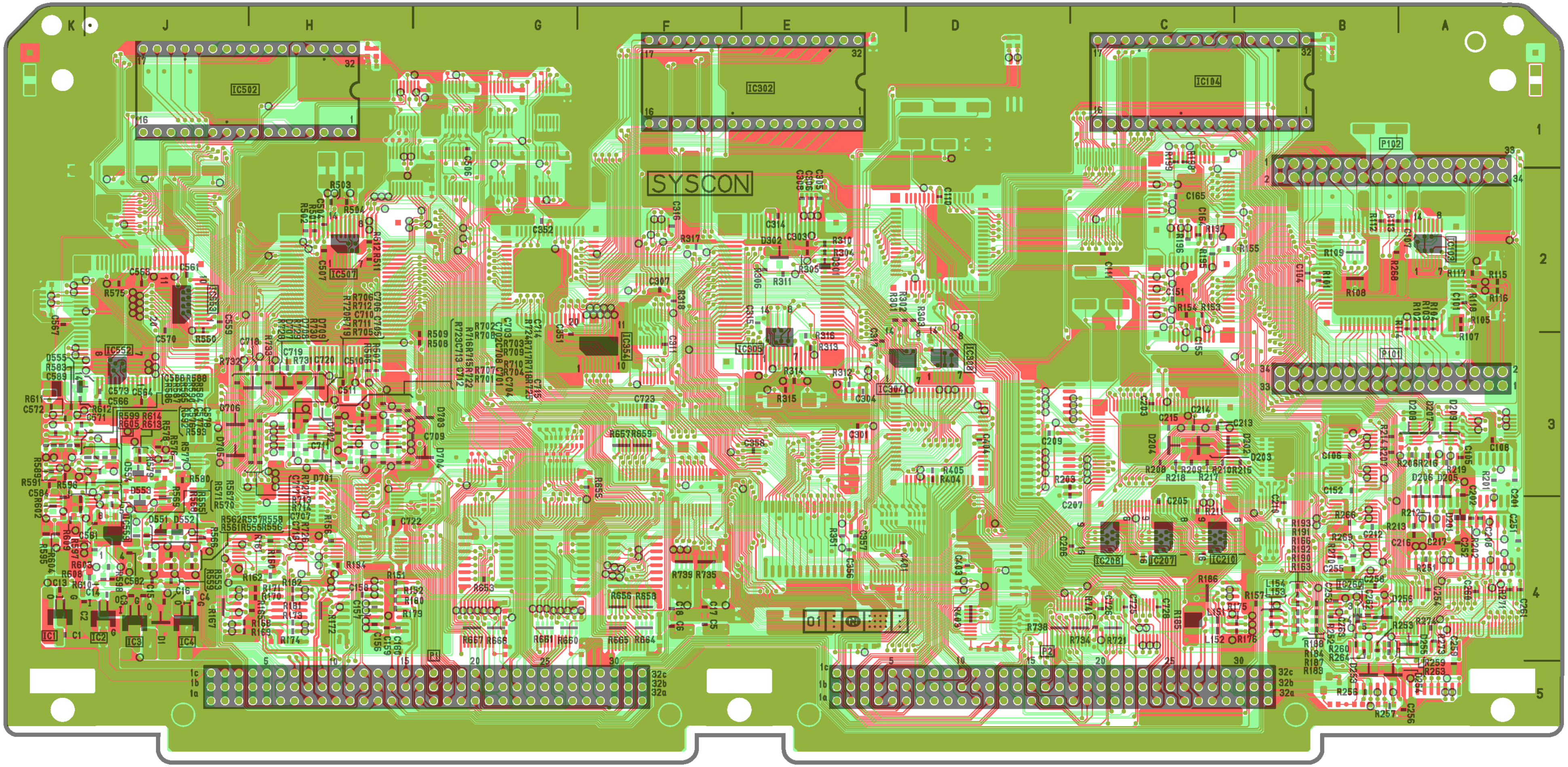
(COMPONENT SIDE)

F6 SYSCON P.C. BOARD (VEP86314A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC
IC1	K4	IC260	B4	IC553	J2
IC2	J4	IC302	E1	IC559	J4
IC3	J4	IC304	E3	P1	G5
IC4	J4	IC305	E3	P2	D5
IC103	A2	IC308	D3	P101	B3
IC104	C1	IC354	F3	P102	B1
IC207	C4	IC502	H1		
IC208	C4	IC507	H2		
IC210	C4	IC552	J3		

CBA-12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P101
IC507
IC552
IC354
IC305
IC308
IC304
IC103
IC208
IC207
IC210
IC260
IC1
IC2
IC3
IC4
P1
P2

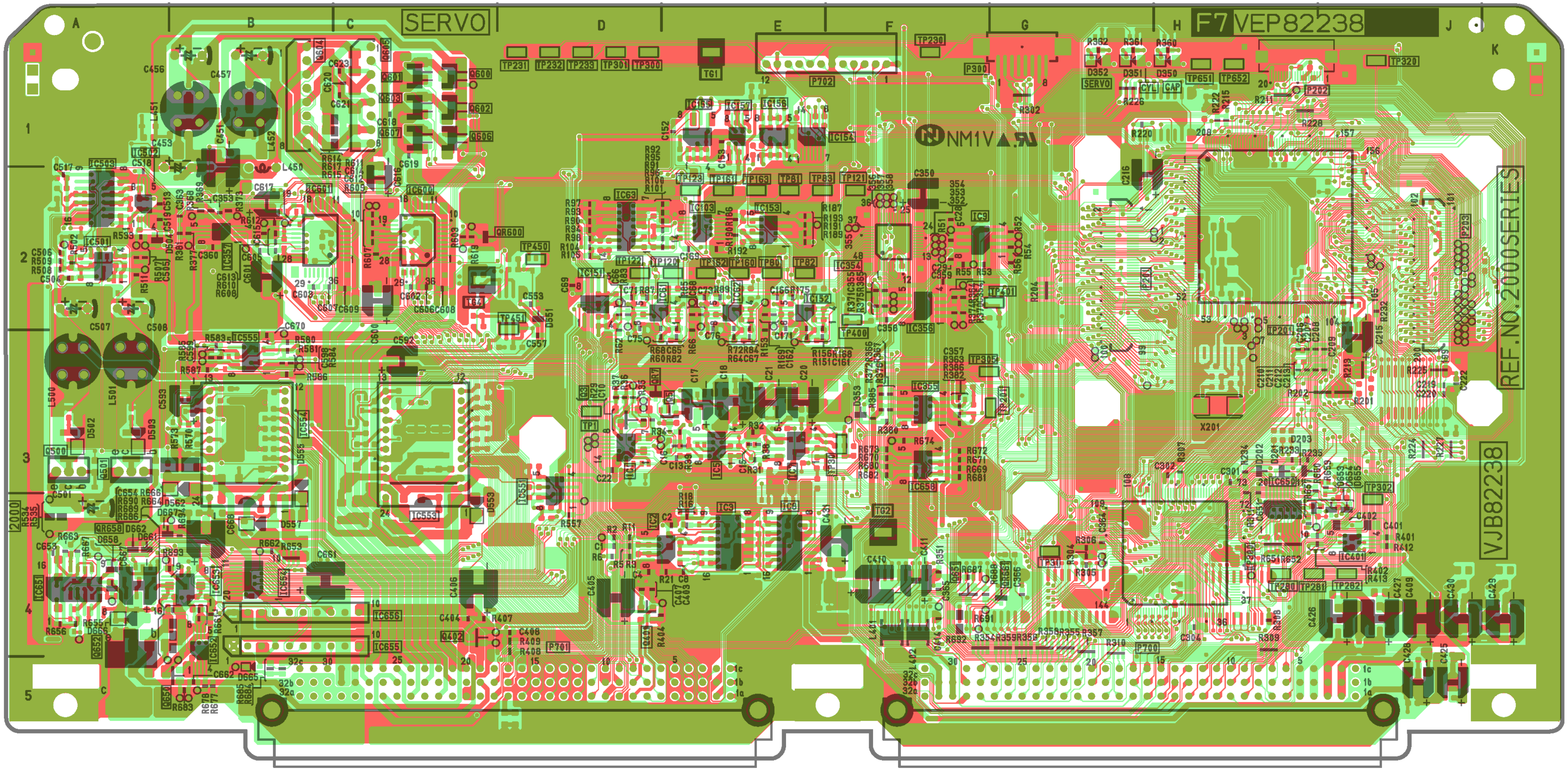
(FOIL SIDE)

F7 SERVO P.C. BOARD (VEP82238A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2001	D3	IC2063	D2	IC2354	F2	IC2554	B3	IC2655	C4	P2700	G5	Q2600	C1	Q2651	F4	TP2001	D3	TP2122	D2	TP2232	D1	TP2320	J1
IC2002	E4	IC2103	E2	IC2356	F2	IC2555	B3	IC2656	C4	P2701	D5	Q2601	C1	Q2652	A4	TP2030	F3	TP2123	E2	TP2233	D1	TP2400	F2
IC2003	E4	IC2151	D2	IC2357	B2	IC2600	C2	IC2658	F3	P2702	E1	Q2602	C1	QR2007	D3	TP2031	G4	TP2160	E2	TP2280	H4	TP2401	G2
IC2005	E3	IC2152	E2	IC2401	J4	IC2601	B2	IP2201	H2	Q2003	D3	Q2603	C1	QR2600	C2	TP2080	E2	TP2161	E2	TP2281	H4	TP2450	D2
IC2007	E3	IC2153	E2	IC2501	A2	IC2650	H3	IP2300	H4	Q2005	E3	Q2604	B1	QR2658	A4	TP2081	E2	TP2162	E2	TP2282	J4	TP2451	D2
IC2008	E4	IC2154	E1	IC2502	A2	IC2651	A4	P2201	G2	Q2401	D4	Q2605	C1	QR2661	G4	TP2082	E2	TP2163	E2	TP2300	D1	TP2651	H1
IC2009	F2	IC2155	E1	IC2503	A2	IC2652	B4	P2202	H1	Q2402	C4	Q2606	C1	TG2001	E1	TP2083	E2	TP2201	G3	TP2301	D1	TP2652	H1
IC2061	D2	IC2156	E1	IC2551	D3	IC2653	B4	P2203	J2	Q2500	A3	Q2607	C1	TG2002	F4	TP2120	E2	TP2230	F1	TP2302	J4		
IC2062	E2	IC2157	E1	IC2553	C3	IC2654	B4	P2300	G1	Q2501	A3	Q2650	B5	TG2004	C2	TP2121	F2	TP2231	D1	TP2305	G3		

CBA-13



(COMPONENT SIDE)

F7 SERVO P.C. BOARD (VEP82238A)

FOIL SIDE

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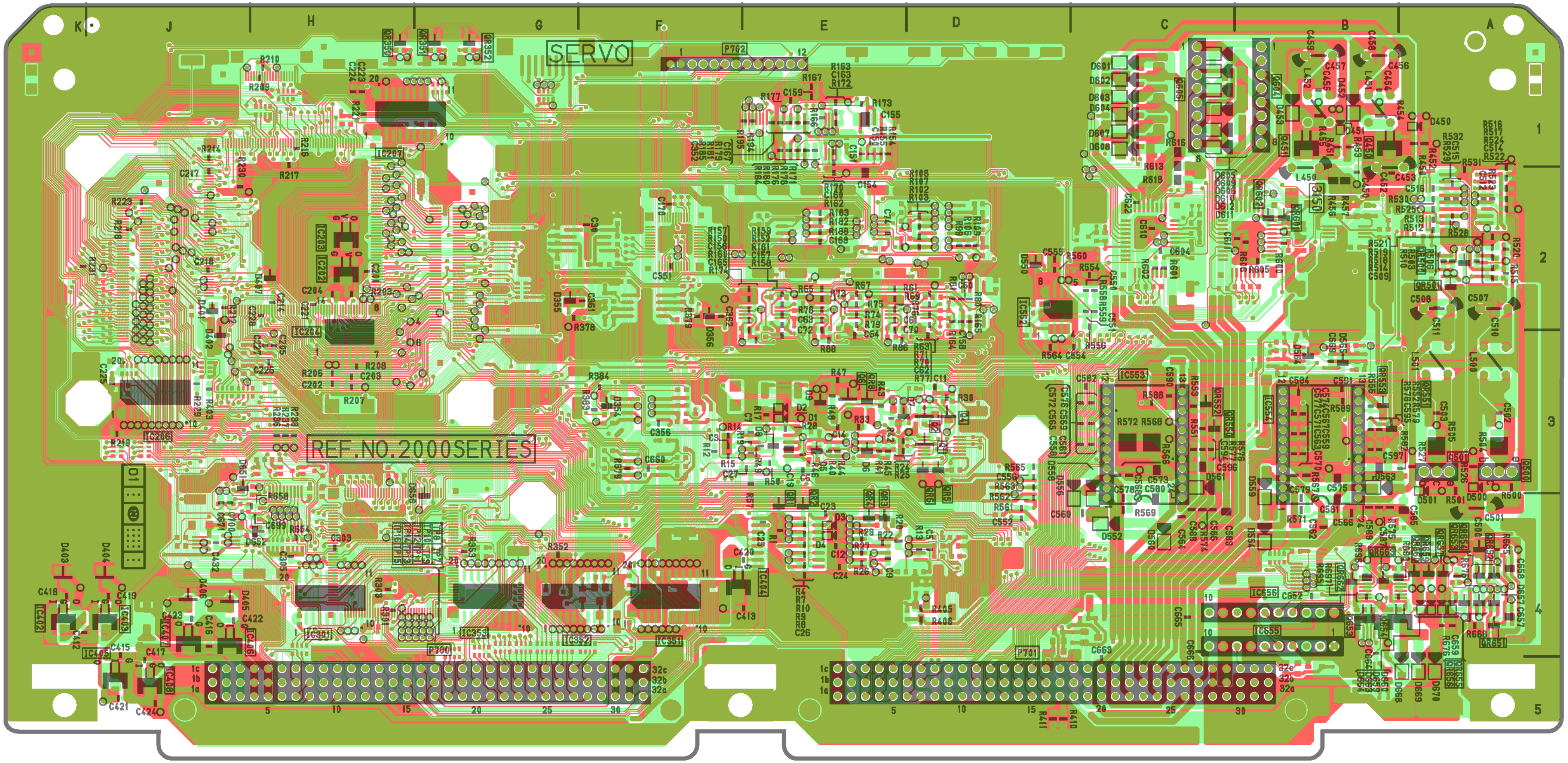
IC2202	H2	IC2402	K4	IC2554	B3	Q2450	B1	QR2002	E4	QR2500	A2	QR2652	A4	QR2663	B4	TP2015	H4
IC2203	H2	IC2403	J4	IC2655	B4	Q2451	B1	QR2003	E4	QR2501	A2	QR2653	A4	TP2007	G4	TP2016	H4
IC2204	H2	IC2404	E4	IC2656	B4	Q2500	A3	QR2004	E4	QR2550	C3	QR2654	A4	TP2008	G4		
IC2206	J3	IC2405	J5	P2701	D5	Q2501	A3	QR2005	D3	QR2551	B3	QR2655	A4	TP2009	G4		
IC2207	H1	IC2406	J4	P2702	F1	Q2604	B1	QR2006	D3	QR2552	C3	QR2656	A4	TP2010	G4		
IC2301	H4	IC2407	J4	Q2001	D3	Q2605	C1	QR2006	E3	QR2553	B3	QR2657	A4	TP2011	G4		
IC2351	F4	IC2408	J5	Q2002	D3	Q2653	B4	QR2350	H1	QR2601	B2	QR2659	A4	TP2012	G4		
IC2352	F4	IC2552	D2	Q2004	D3	Q2654	A4	QR2351	G1	QR2602	B2	QR2660	A4	TP2013	H4		
IC2353	G4	IC2553	C3	Q2006	E3	QR2001	E4	QR2352	G1	QR2651	A4	QR2662	B4	TP2014	H4		

CBA-14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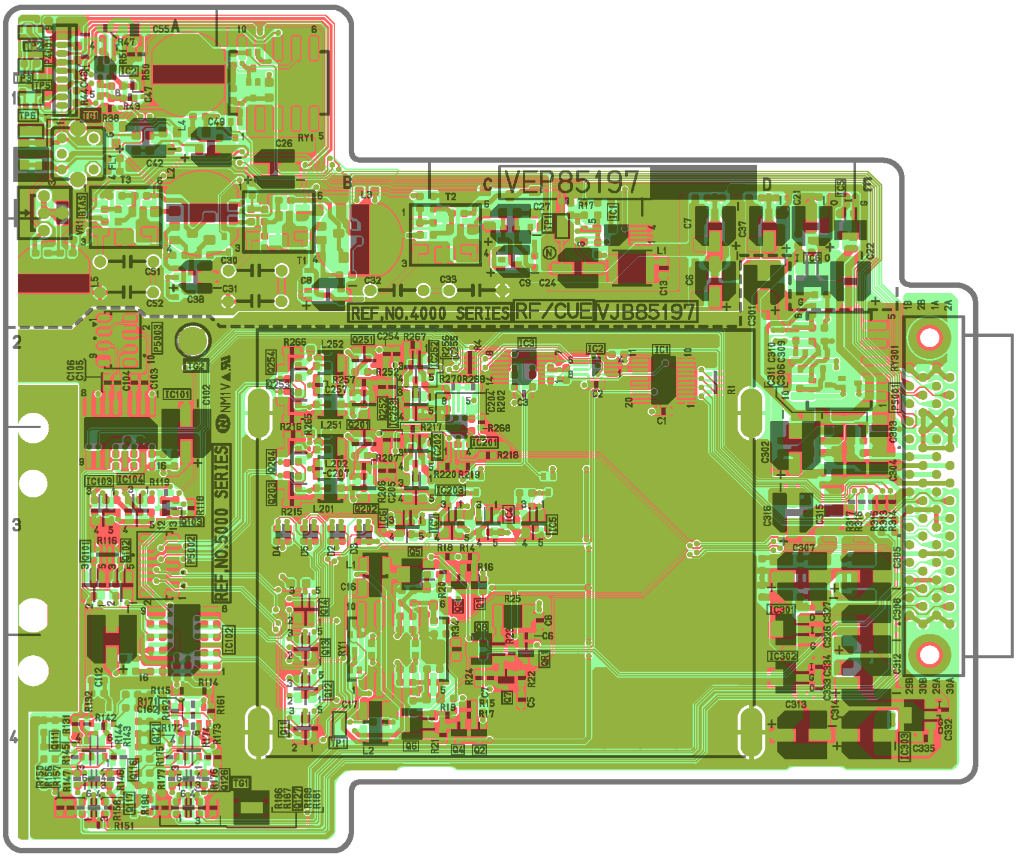
IC2655
IC2656
IC2402
IC2403

(FOIL SIDE)

RF CUE P.C. BOARD (VEP85197A)

COMPONENT SIDE

REF	LOC	REF	LOC
IC4001	C2	Q5007	C4
IC4002	A1	Q5008	C4
IC4005	D2	Q5011	B4
IC4006	D2	Q5012	B4
IC5001	D2	Q5013	B4
IC5002	C2	Q5014	B3
IC5003	C2	Q5101	A3
IC5004	C3	Q5102	A3
IC5005	C3	Q5103	A3
IC5006	B3	Q5111	A4
IC5007	C3	Q5116	A4
IC5012	A3	Q5117	A4
IC5101	A2	Q5121	A4
IC5103	A3	Q5126	A4
IC5104	A3	Q5127	A4
IC5201	C3	Q5202	B3
IC5202	B3	Q5203	B3
IC5203	B3	Q5204	B3
IC5252	B2	Q5251	B2
IC5253	B2	Q5252	B2
IC5301	D3	Q5253	B2
IC5302	D4	Q5254	B2
IC5303	D4	QR5001	C4
P4001	A1	T4001	C2
P5001	E2	TG4001	A1
P5002	A3	TG5001	B4
P5003	A2	TG5002	A2
Q5001	C3	TP4002	A1
Q5002	C4	TP4003	A1
Q5003	C3	TP4005	A1
Q5004	C4	TP4006	A1
Q5005	B3	TP5001	B4
Q5006	B4	VR4001	A1



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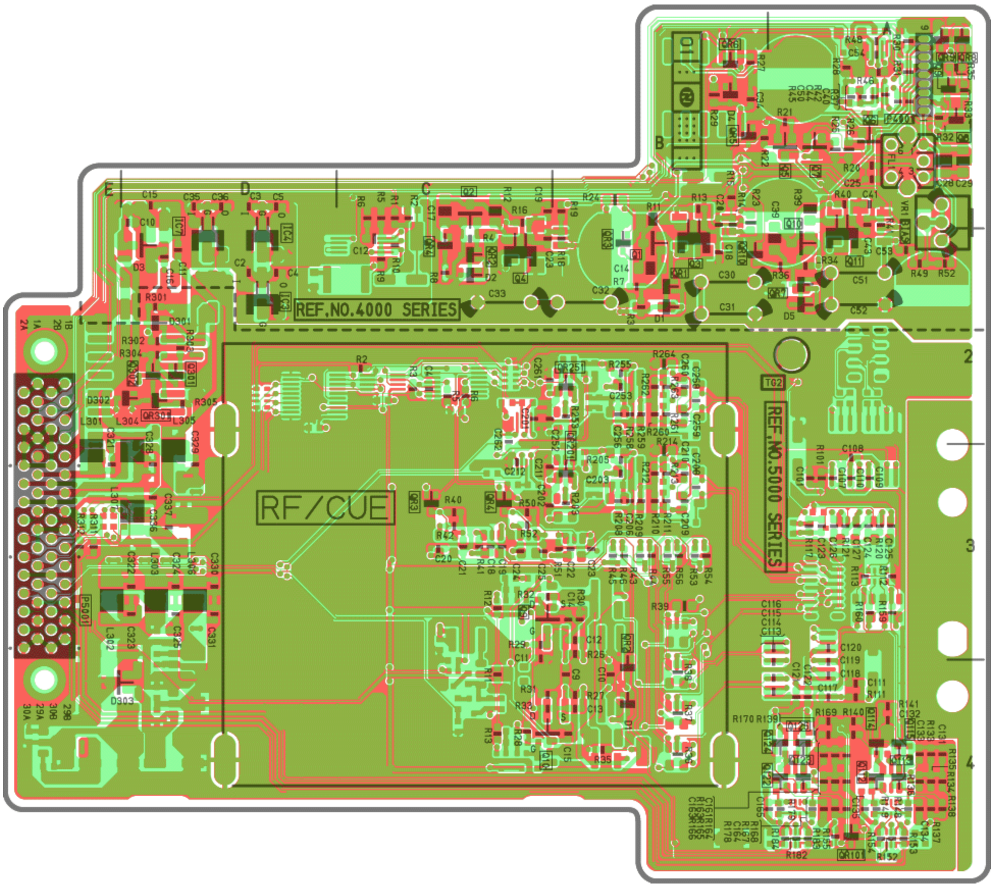
FOIL SIDE

REF	LOC	REF	LOC
IC4003	D2	QR4007	A2
IC4004	D2	QR4008	A1
IC4007	D2	QR4009	A1
P4001	A1	QR4010	B2
P5001	E3	QR5002	B3
Q4001	B2	QR5003	C3
Q4002	A1	QR5004	C3
Q4003	A1	QR5101	A4
Q4004	C2	QR5201	B3
Q4005	C1	QR5251	B2
Q4006	A1	QR5301	D2
Q4008	A1	TG5002	A2
Q4009	B2	VR4001	A1
Q4010	A2		
Q4011	A2		
Q5009	C3		
Q5010	C4		
Q5112	A4		
Q5113	A4		
Q5114	A4		
Q5115	A4		
Q5122	A4		
Q5123	A4		
Q5124	A4		
Q5125	A4		
Q5301	D2		
Q5302	D2		
QR4001	B2		
QR4002	C2		
QR4003	B2		
QR4004	C2		
QR4005	B1		
QR4006	B1		



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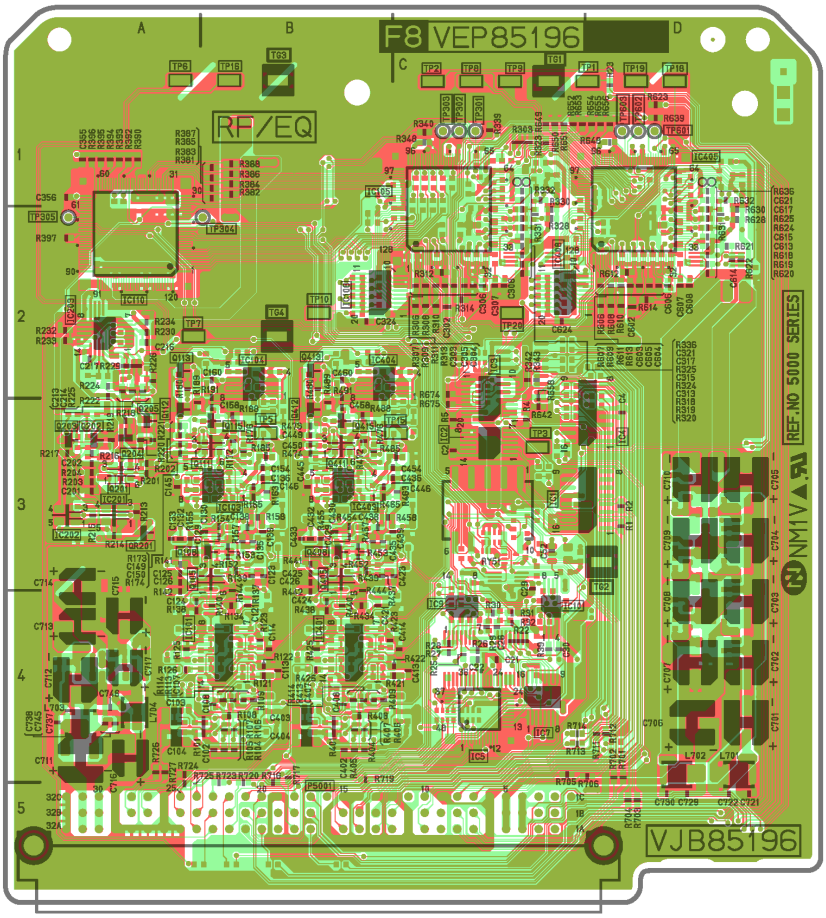
F8 RF EQ P.C. BOARD (VEP85196A)

COMPONENT SIDE

REF	LOC	REF	LOC
IC5001	D3	Q5405	B3
IC5002	C3	Q5408	B3
IC5003	C2	Q5411	B3
IC5004	D3	Q5412	B3
IC5005	C4	Q5413	B2
IC5007	C4	Q5415	B3
IC5009	C4	QR5201	A3
IC5010	C4	TG5001	B5
IC5101	B4	TG5002	D3
IC5103	B3	TG5003	B1
IC5104	B2	TG5004	B2
IC5105	C1	TP5001	D1
IC5108	B2	TP5002	C1
IC5110	A2	TP5003	C3
IC5201	A3	TP5005	B3
IC5202	A3	TP5006	A1
IC5203	A2	TP5007	A2
IC5401	B4	TP5008	C1
IC5403	B3	TP5009	C1
IC5404	B2	TP5010	B2
IC5405	D1	TP5015	C3
IC5408	C2	TP5016	B1
P5001	B5	TP5018	D1
Q5105	B3	TP5019	D1
Q5108	B3	TP5020	C2
Q5111	B3	TP5301	C1
Q5112	A3	TP5302	C1
Q5113	A2	TP5303	C1
Q5115	B3	TP5304	B2
Q5201	A3	TP5305	A2
Q5202	A3	TP5601	D1
Q5203	A3	TP5602	D1
Q5204	A3	TP5603	D1
Q5205	A3		



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IC5008	C4	Q5402	B4
IC5011	C3	Q5403	B4
IC5012	C3	Q5404	B4
IC5013	C3	Q5406	C3
IC5014	C3	Q5407	C3
IC5102	B4	Q5409	C3
IC5106	C2	Q5410	B3
IC5107	C2	Q5414	B3
IC5204	A1	Q5601	D1
IC5402	B4	Q5602	D2
IC5406	D2	Q5603	D1
IC5701	D4	QR5051	C3
IC5702	D3	QR5052	C3
IC5703	D3	TP5301	C1
IC5704	D4	TP5302	C1
IC5705	D3	TP5303	C1
IC5706	D3	TP5304	B1
IC5707	A4	TP5305	A1
IC5708	A4	TP5601	D1
IC5709	A4	TP5602	D1
P5001	B5	TP5603	D1
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Q5102	B4		
Q5103	B4		
Q5104	A4		
Q5106	B3		
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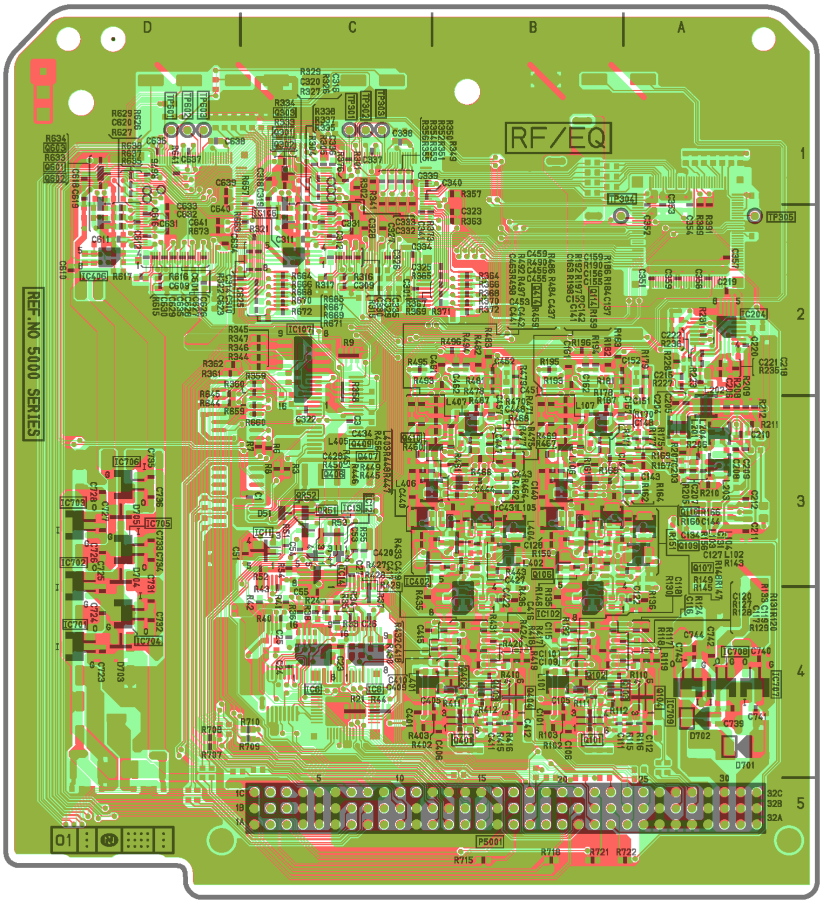

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